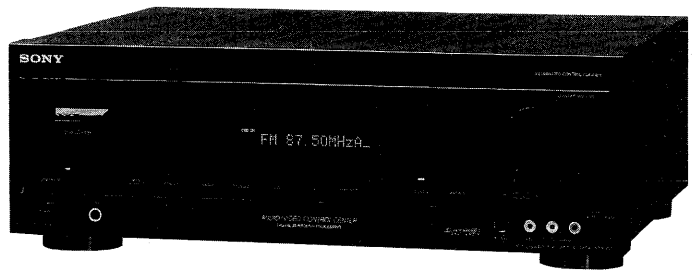
STR-G3

SERVICE MANUAL

US Model
Canadian Model
PX Model



Refer to the previously issued STR-G1ES Service Manual (9-959-241-11) for the remote commander (RM-VP1).

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SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads both channels driven, from 20 - 20,000 Hz; rated 110 watts per channel minimum RMS power, with no more than 0.3 % total harmonic distortion from 250 milliwatts to rated output.

	Surround mode (at 1 kHz, THD 0.8% 8 ohms)
FRONT	100 W + 100 W
CENTER [a]	100 W
REAR	50 W + 50 W

[a] Only in the DOLBY SUR and THEATER modes.

Other Specifications

Dynamic power output (in the stereo mode)	8 ohms, at 1 kHz IHF	160 W + 160 W
	4 ohms, at 1 kHz IHF	225 W + 225 W
Frequency response	PHONO	RIAA equalization curve ±0.5 dB
	CD, DAT/MD, TAPE, VIDEO 1,2,3, LD, SATL	10 Hz – 50 kHz $^{+0}_{-1}$ dB
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/ impedance	PHONO MM	2.5 mV, 50 kilohms
	CD	300 mV, 50 kilohms
	DAT/MD TAPE, VIDEO 1,2,3, LD, SATL	250 mV 50 kilohms
S/N	PHONO MM	75 dB 75 dB [b] (A, 2.5 mV)
	DAT/MD TAPE, VIDEO 1,2,3, LD, SATL	82 dB 82 dB [b] (A,150 mV)

[b] '78 IHF

— Continued on page 2 —

FM STEREO/FM-AM RECEIVER

SONY®

Level sensitivity/ impedance	DAT/MD, TAPE, VIDEO 1,2	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
	MIX OUT	1 V, 1 kilohm
MUTING		–20 dB
BASS BOOST		+10 dB at 70 Hz

Digital signal processor section

Surround	SURR EFFECT	5-step adjustable
	DELAY TIME [c]	15 ms – 30 ms, 5 ms step
	REAR LEVEL [c]	–15 to +10 dB, 1 dB step
	CENTER LEVEL [d]	–15 to +10 dB, 1 dB step
Tone control	BASS	100 Hz ±10 dB, 2 dB step
	TREBLE	100 Hz ±10 dB, 2 dB step

[c] Only in the DOLBY SUR mode.
[d] Only in the DOLBY SUR, THEATER and LIVE modes.

FM tuner section

Tuning range		87.5 – 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Sensitivity		18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)
Usable sensitivity		11.2 dBf, 2 µV (IHF)
S/N	Mono	76 dB
	Stereo	70 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz – 15 kHz $^{+0}_{-2}$ dB
Selectivity		60 dB at 400 kHz

AM tuner section

Tuning range	530 – 1,710 kHz (with 10 kHz interval*) 531 – 1,710 kHz (with 9 kHz interval)
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)

* You can change the AM tuning interval to 9 kHz (or 10 kHz). After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz (or 9 kHz) repeat the procedure.

Video section

Inputs	VIDEO 1,2,3, LD, SATL: 1 Vp-p 75 ohms	
Outputs	VIDEO 1,2, MONITOR: 1 Vp-p 75 ohms	
S VIDEO INPUT	VIDEO 1,2,3, LD	Luminance: 1 Vp-p 75 ohms Chrominance: 0.286 Vp-p 75 ohms
S VIDEO OUT	MONITOR VIDEO 1,2	Luminance: 1 Vp-p 75 ohms Chrominance: 0.286 Vp-p 75 ohms

General

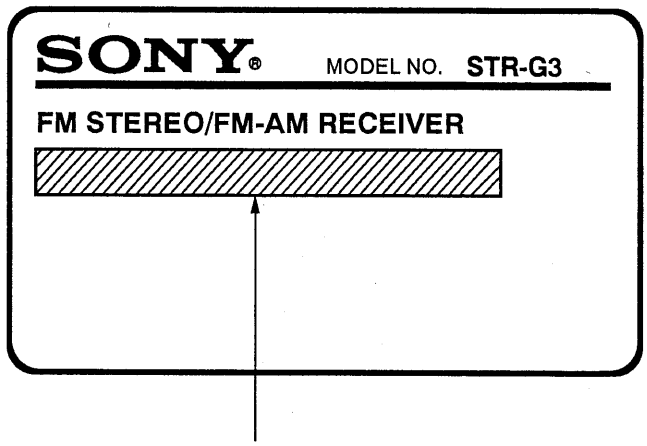
System	Tuner section	PLL quartz-locked digital synthesizer system
	Power amplifier section	Pure-complimentary SEPP
Power requirements		US, Canadian model : 120 V AC, 50/60 Hz PX model : 120, 220 or 240 V AC adjustable, 50/60 Hz
Power consumption		US model : 230 W Canadian model : 325 VA PX model : 250 W
AC outlets		US, Canadian model : 2 switched, total 120 W/1 A max. PX model : 100 W
Dimensions (including projecting parts and controls)		Approx. 430 × 148 × 365 mm (w/h/d) (17 × 5 7/8 × 14 3/8 inches)
Mass		Approx. 10.0 kg (22 lb 1 oz)

Supplied accessories

FM wire antenna (1)
AM loop antenna (1)
Remote commander (RM-VP1) (1)
Sony batteries SUM-3(NS) (2)
Remote Control (RC) antenna (1)
IR repeater (1)
Getting Started and Basic Operation (1)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
(Specification Label)



US, Canadian model : AC 120V 60Hz
PX model : AC 120V/220V/240V~50/60Hz

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

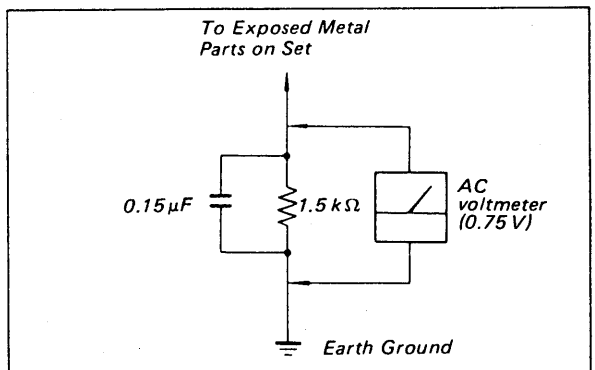
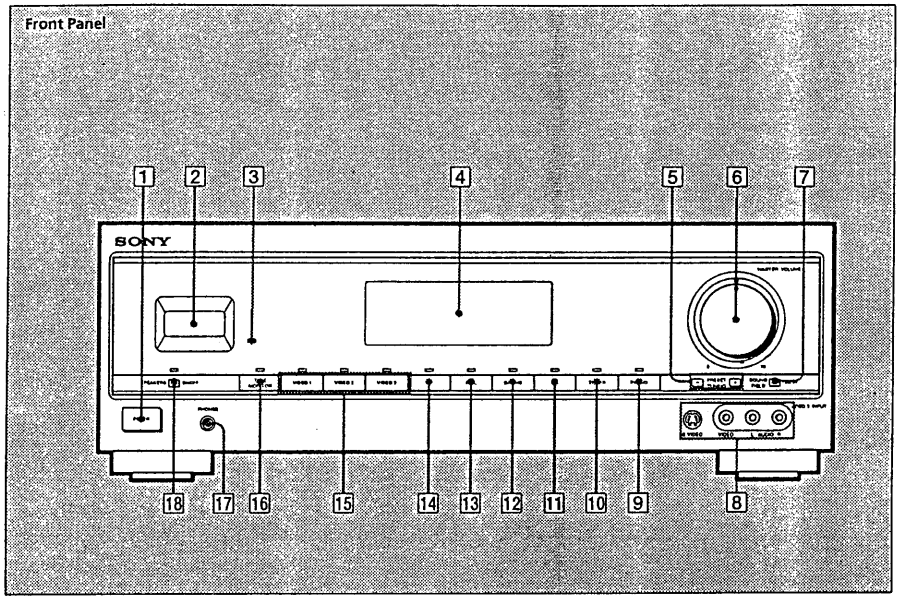


Fig. A. Using an AC voltmeter to check AC leakage.

Identifying the Parts and Controls

Front Panel



1 POWER switch

2 Infrared (IR) emitter
Emits IR codes to program sources.

3 Infrared (IR) codes setting indicator
Lights up when the unit receives IR codes.

4 Display
Shows the program source, function, and tuning frequency, etc.

5 PRESET TUNING (+/–) buttons
Selects the preset stations.

6 MASTER VOLUME control
Adjusts the overall sound volume.

7 SOUND FIELD button (ON/OFF)
Turns the sound field on and off.

8 VIDEO 3 INPUT jacks
For connecting camcorders or video game units, etc.

9 PHONO button
Selects the record player connected to the PHONO jack.

10 TUNER button
Selects the tuner.

11 CD (Compact Disc) button
Selects the compact disc player connected to the CD jacks.

12 DAT/MD (Digital Audio Tape/MiniDisc) button
Selects the DAT deck or MiniDisc deck connected to the DAT/MD jacks.

13 SATL button
Selects the DDS receiver connected to the SATL jacks.

14 LD (Laser Disc) button
Selects the laser disc player connected to the LD jacks.

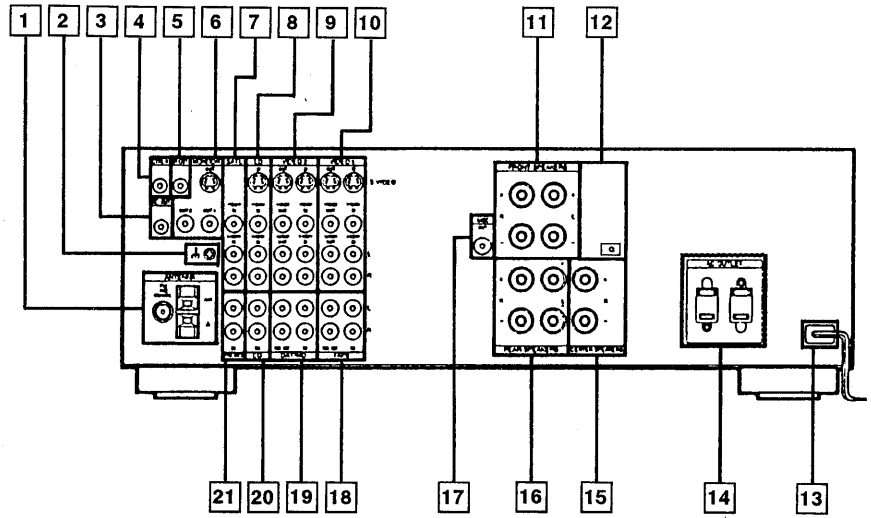
15 VIDEO 1–3 buttons
Selects the video decks connected to the VIDEO 1–3 jacks.

16 TAPE MONITOR button
When pressed, allows monitoring of an audio program source during recording.

17 PHONES jack
Connects stereo headphones.

18 SPEAKERS button (ON/OFF)
Turns the speakers on and off.

[Rear Panel]



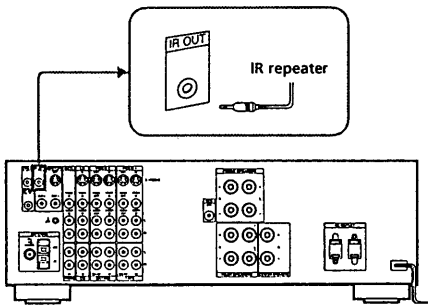
1 ANTENNA (AM/FM)
2 GROUND terminal
3 RC ANT
4 CTRL A
5 IR OUT
6 MONITOR
7 SATL
8 LD
9 VIDEO 2
10 VIDEO 1
11 FRONT SPEAKERS
12 IMPEDANCE SELECTOR
13 AC power cord
14 AC OUTLET
15 CENTER SPEAKER
16 REAR SPEAKER
17 MIX
18 TAPE
19 DAT/MD
20 CD
21 PHONO

This section is extracted from instruction manual.

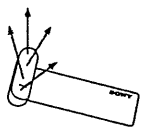
Hooking Up the System

Connecting the IR Repeater

If you experience trouble controlling electrical equipment, it may be due to weak infrared (IR) signal transmission from the infrared emitter. In this case, turn off the unit and connect the plug end of the IR repeater to IR OUT on the unit. Then, using the adhesive side of the emitter section, secure the IR repeater so that its front faces the equipment to be controlled.



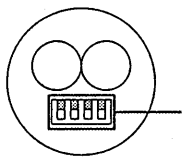
IR repeater



Preventing Interference Between Two or More Remote Commanders

If you use two or more STR-G3s at the same time, interference may occur between the RF signals, causing the units to operate erratically. You can prevent this by giving all units a unique security number which distinguishes the signal of each unit from the others. Follow the procedure below to assign a security number to each unit.

1 Turn off the power to the unit.
2 Turn on the unit again while simultaneously holding down the PHONO, CD, and TUNER buttons on the front panel. "SECURITY No." appears in the display. Enter a number from 0 to 15 by pressing PHONO, CD or TUNER on the front panel. Make sure that the number is different from the security code of the other units.
3 After a few seconds, SECURITY OK! appears, indicating that the code has been recorded.
4 Enter the same security number into the remote commander. To do this, open the battery compartment and remove the batteries. You will see a set of yellow switches as shown below.

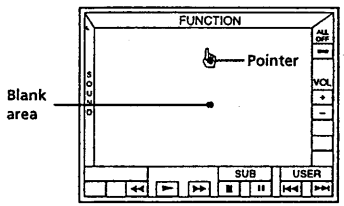


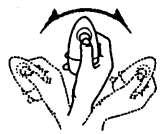
Use the tip of a pen or some other pointed object to flip up the appropriate switches for each digit of the security number. Note that all switches are down for zero, and all switches are up for fifteen.

SECURITY NO.	Remote commander	SECURITY NO.	Remote commander
0		8	
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	

How to Use the Remote Commander

The tip of the remote commander pointing towards the RC antenna, move it to position the pointer on the on-screen display onto menus and individual operation buttons, then press the click button to operate the selected buttons.



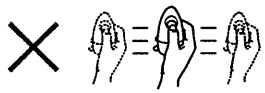


Press the click button on the remote commander once or twice to turn on the unit.

Hints on handling the remote commander

- A slight move of the wrist is all you need to direct the pointer. (See illustration above.)
- Hold the remote commander with its "click" button facing up, as shown below. If the click button is oriented diagonally, the pointer on the screen will also be oriented diagonally.

- The remote commander will not operate if you move along a flat plane as shown below.



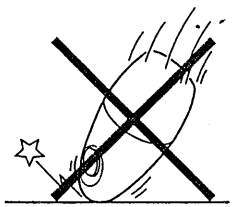
- If you place the remote commander on a flat surface, the on-screen display will disappear after a few seconds.
To make the on-screen display disappear faster, position the pointer on a blank area, keep the click button pressed as the display disappears, then place the remote commander on a flat surface and release the click button.
The on-screen display will reappear each time you touch or press the click button on the remote commander.

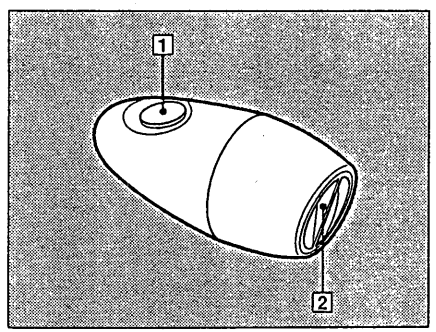
Notes

- The position of the pointer freezes when you hold down the click button.
- If the pointer begins drifting on the screen even while the remote commander is stationary, place the remote commander on a flat surface until the on-screen display disappears. The pointer should behave normally the next time you use the remote.
- If your hand is very dry, the on-screen display may not appear when you touch the click button. In this case, press the click button.

Caution

Since the remote commander contains delicate circuitry and parts, do not subject it to sudden changes in temperatures or to shock.





1 Click button
Press this button to activate a button or select a menu item on the screen.

2 Battery compartment
Insert batteries here. (See page 7.)

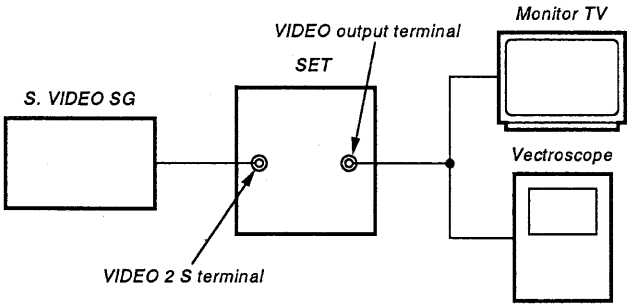
Note

If the on-screen display does not appear even when batteries are inserted into the remote commander, reinsert the batteries and place the remote commander on a flat surface for about 10 seconds.

SECTION 2
ELECTRICAL ADJUSTMENTS

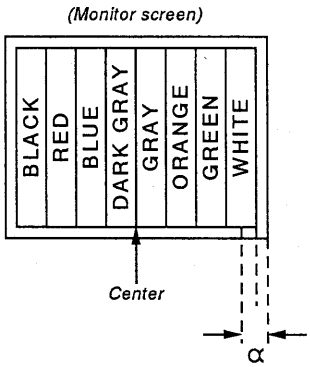
2-1. OSD ADJUSTMENT

Setting :

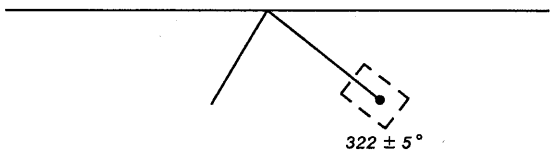


Procedure :

1. Connect the frequency counter to terminal TP201.
2. Turn the POWER switch ON, press VIDEO 1 and set the function to VIDEO 1. (The input signal set to OFF.)
3. Turn the POWER switch OFF, keep the LD, SATL, DAT/MD buttons depressed at the same time and then turn the POWER switch ON.
4. Check that the screen shows only the color bars, and then adjust CT202 so that the reading becomes 14.318181MHz ± 180kHz.
5. Adjust CT201 so that the right edge of the color bars on the screen comes within the frame.



6. Use the vectroscope to adjust RV201 so that the hue of the blue color becomes 322 ± 5 °



2-2. ADJUSTMENT IN CASE THE OSD SCREEN TENDS TO GO TO THE LEFT AND RIGHT OR UP AND DOWN

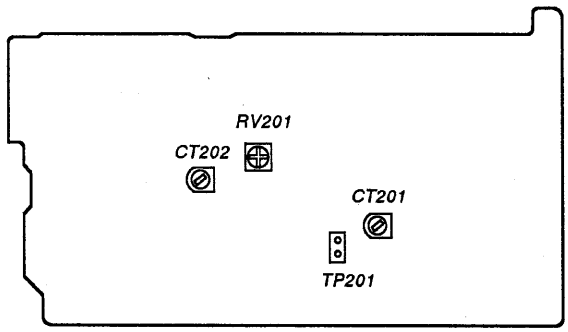
Procedure :

1. Turn the POWER switch OFF, keep the LD, SATL, DAT/MD buttons depressed at the same time and then turn the POWER switch ON.
2. The color bars will be displayed on the monitor screen, and "ADJUSTMENT HORIZONTAL 0" will be displayed on the FL tube.
3. When pressing the PRESET − , + buttons, the monitor screen will move in the left or right direction. When pressing the SOUND FIELD button, "ADJUSTMENT VERTICAL 0" will be displayed and the screen will move up or down.
4. In case the OSD screen is off set and operation is difficult and when pressing the ▷▷ (FF) button on a VTR of another manufacturer, the OSD screen will move downward and then it may be difficult to see the pointer. At this time, it can be lowered by setting it to the upper position.

2-3. INITIALIZATION OF THE MICROCOMPUTER

Keep the TAPE and VIDEO button depressed simultaneously and then turn the POWER switch ON.

Adjustment Location : OSD board (Component side)



SECTION 3
EXPLANATION OF IC TERMINALS

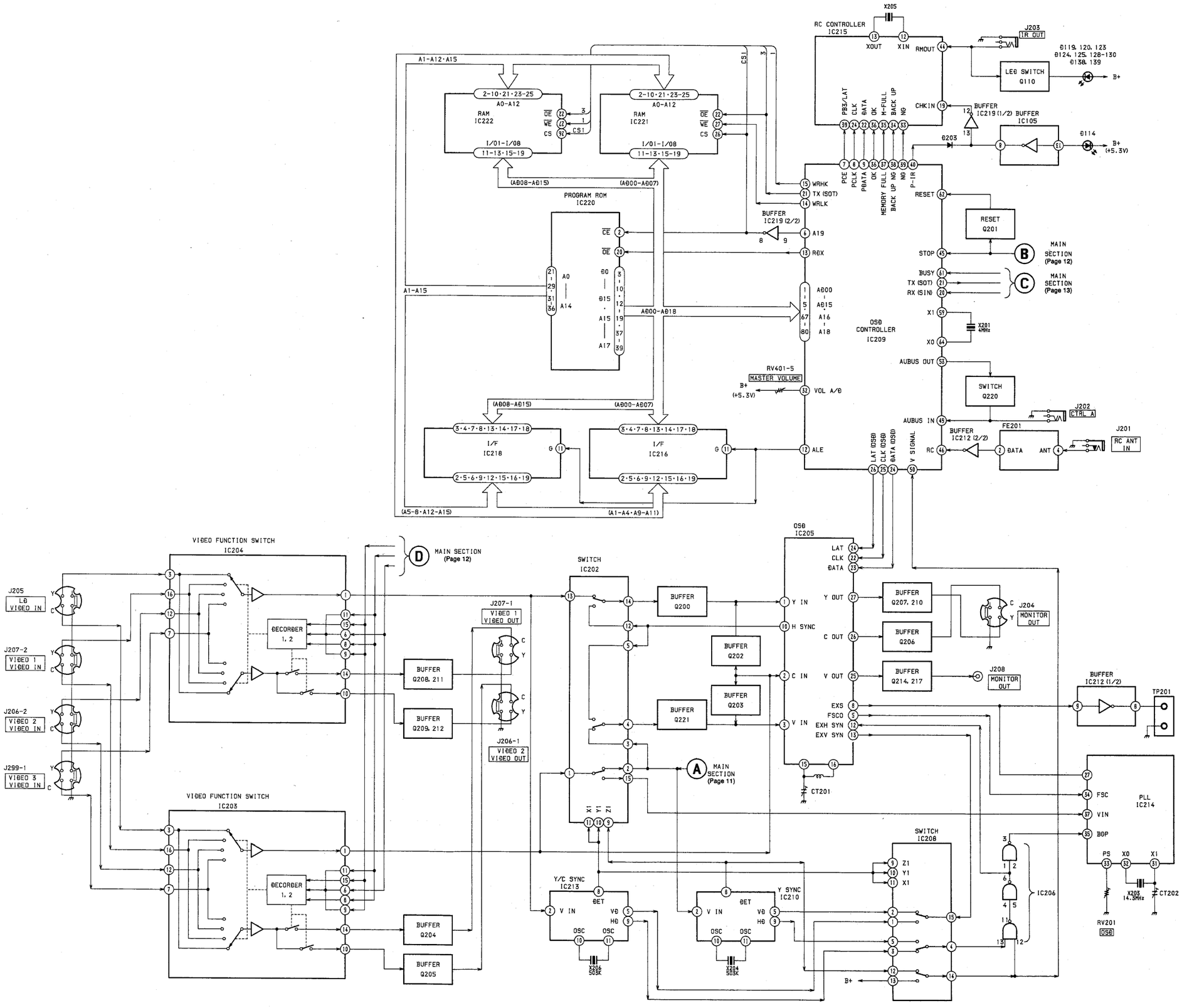
IC107 MB90673PF-G-113-BND

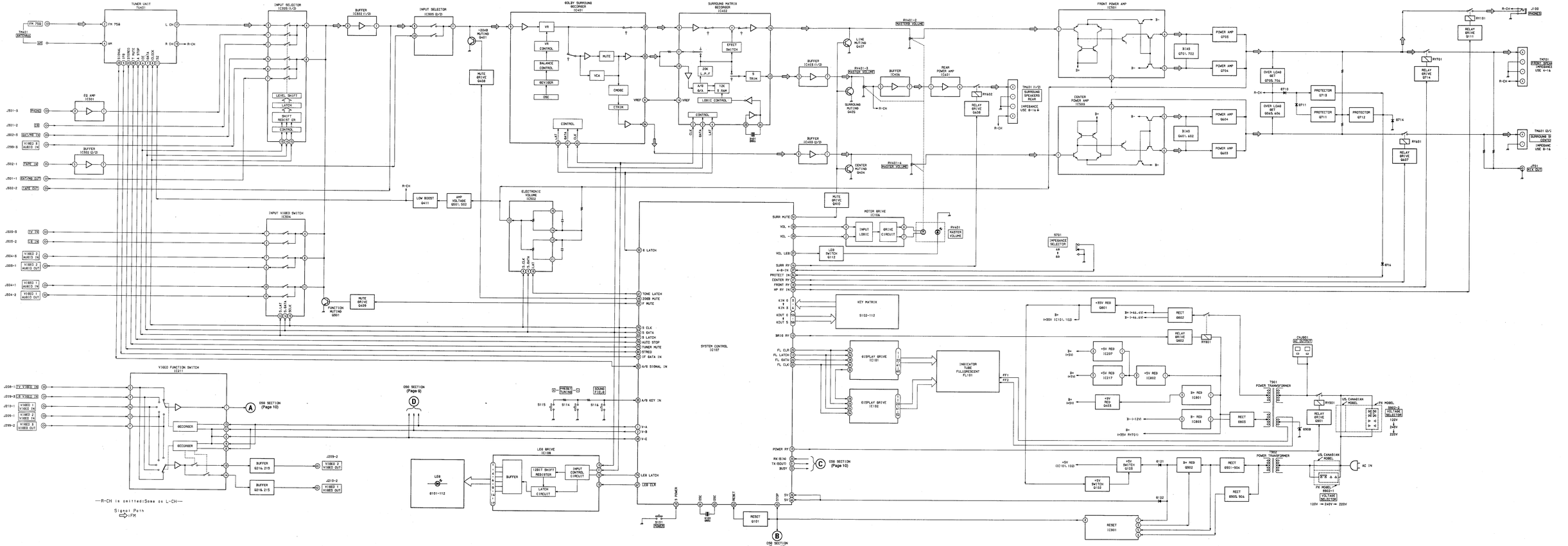
Pin No.	Pin name	I/O	Description
1	V-A	O	VIDEO A control terminal.
2	V-B	O	VIDEO B control terminal.
3	KI0	I	Key in 0.
4	KI1	I	Key in 1.
5	KI2	I	Key in 2.
6	KI3	I	Key in 3.
7	KI4	–	Not used. (Low level)
8	KI5	–	Not used. (Low level)
9	KI6	–	Not used. (Low level)
10	IF DAT IN	I	PLL data input terminal.
11	Vss (D)	–	Digital for power supply. (GND)
12	FL•LAT	O	FL latch output.
13	P•RY	O	Power relay drive.
14	RM INPUT	I	SIRCS signal input terminal.
15	BRIG RY	O	Bridgiable relay drive.
16	SUR RY	O	Surround relay drive.
17	CENTER RY	O	Center relay drive.
18	FRONT RY	O	Speaker relay drive.
19	HP•RY	O	Phones realy drive.
20	RX (SIN)	I	Surround signal input.
21	TX (SOUT)	O	Output signal input.
22	BUSY	O	Busy signal output.
23	$\overline{\text{FL•CLR}}$	O	FL clear.
24	FL•DATA	O	FL data output.
25	FL•CLK	O	FL clock output.
26	PROT IN	I	Protector DET input.
27	4/8•INPUT	I	4-8 in.
28	Vcc (A)	–	Analog for power supply. (+5V)
29	+AVREF	–	Reference voltage. (+5V)
30	– AVREF	–	Reference voltage. (GND)
31	GND	–	Digital for power supply. (+5V)
32	SIGNAL IN	I	A/D signal input terminal.
33	NC	–	Not used. (GND)
34	Vss (D)	–	Digital for power supply. (GND)
35	A/D KEY IN	I	A/D key input.
36	NC	–	Not used. (OPEN)
37	VOL LED	O	Volume LED drive output.
38	VOL UP	O	Volume + control.
39	VOL DOWN	O	Volume – control.
40	– 20dB	O	– 20dB mute.

Pin No.	Pin name	I/O	Description
41	MODE 0	I	Mode select terminal. (Connected to +5V)
42	MODE 1	I	Mode select terminal. (Connected to +5V)
43	MODE 2	I	Mode select terminal. (Connected to GND)
44	STANDBY	I	Standby terminal. (+5V)
45	STOP	I	Stop in.
46	V-INH	O	Video inhibit output. (OPEN)
47	RDS DATA	I	RDS data input.
48	RDS CLK	I	RDS clock input.
49	V-E	O	Video E control.
50	F•MUTE	O	Function mute control.
51	S•MUTE	O	Surround mute control.
52	D•LAT	O	Surround data latch output.
53	KO0	O	Key out 0.
54	KO1	O	Key out 1.
55	KO2	O	Key out 2.
56	KO3	O	Key out 3.
57	KO4	O	Key out 4.
58	KO5	O	Key out 5.
59	NC	–	Not used. (OPEN)
60	NC	–	Not used. (OPEN)
61	T•LAT	O	Tone latch output.
62	RESET	I	System reset terminal.
63	Vss (D)	–	Digital for power supply. (GND)
64	XO	O	System clock OSC. (4.0MHz)
65	XI	I	System clock OSC. (4.0MHz)
66	Vcc (D)	–	Digital for power supply. (+5V)
67	$\overline{\text{LED CLR}}$	O	LED data output.
68	NC	–	Not used. (Connected to GND)
69	NC	–	Not used. (Connected to GND)
70	NC	–	Not used. (Connected to GND)
71	NC	–	Not used. (Connected to GND)
72	NC	–	Not used. (Connected to GND)
73	S• POWER	I	Power key input terminal.
74	LED LAT	O	LED latch output.
75	S CLK	O	Serial clock output.
76	S• DATA	O	Serial data output.
77	S LAT	O	Serial latch output.
78	AUTO STOP	I	Auto stop DET.
79	T•MUTE	O	Tuner mute control output.
80	STEREO	I	Stereo DET.

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM (OSD SECTION)




TUNER UNIT TU401
FM 75Ω
AM
L CH
R CH
INPUT SELECTOR IC505 (1/2)
BUFFER IC502 (1/2)
INPUT SELECTOR IC505 (2/2)
-20dB MUTING Q401
MUTE DRIVE Q408
DOLBY SURROUND DECORDER IC451
SURROUND MATRIX DECORDER IC452
VR
VR CONTROL
BALANCE CONTROL
EQ/VIER
OSC
MUTE
VCA
CMODE
CTRIM
VREF
EFFECT SWITCH
20K
L.P.F
A/B
B/A
12K
3.3uH
LOGIC CONTROL
B TRIM
CONTROL
DATA
CLK
LAT
BATT BKUP
BUFFER IC458 (1/2)
BUFFER IC458 (2/2)
RV401-2 MASTER VOLUME
LINE MUTING Q427
RV401-3 MASTER VOLUME
SURROUND MUTING Q405
BUFFER IC436
REAR POWER AMP IC431
RELAY DRIVE Q438
RV402
TM401 (1/2) SURROUND SPEAKERS REAR IMPEDANCE USE 8~16Ω
FRONT POWER AMP IC501
B1A5 Q701, 702
POWER AMP Q703
POWER AMP Q704
OVER LOAD DET Q705, 706
PROTECTOR Q713
PROTECTOR Q711
PROTECTOR Q712
CENTER POWER AMP IC559
B1A5 Q401, 402
POWER AMP Q604
POWER AMP Q605
RV401-4 MASTER VOLUME
CENTER MUTING Q424
RELAY DRIVE Q714
RELAY DRIVE Q407
RV701
RV401
J100 PHONES
TM701 FRONT SPEAKERS IMPEDANCE USE 4~16Ω
TM401 (2/2) SURROUND & CENTER IMPEDANCE USE 8~16Ω
J501 RTX WIRE
EQ AMP IC551
BUFFER IC552 (2/2)
J501-5 PHONO
J501-2 CD
J502-5 SAT/PRE IN
J299-5 VIDEO 5 AUDIO IN
J502-1 TAPE 1 IN
J501-1 SAT/PRE OUT
J502-2 TAPE 1 OUT
LOW BOOST Q411
AMP VOLTAGE Q501, 502
ELECTRONIC VOLUME IC502
INPUT VIDEO SWITCH IC504
J505-5 TV IN
J505-2 6 IN
J504-5 VIDEO 2 AUDIO IN
J505-1 VIDEO 2 AUDIO OUT
J504-1 VIDEO 1 AUDIO IN
J504-2 VIDEO 1 AUDIO OUT
FUNCTION MUTING Q501
MUTE DRIVE Q409
MUTE DRIVE Q410
MOTOR DRIVE IC106
INPUT LOGIC
DRIVE CIRCUIT
RV401 MASTER VOLUME
LED SWITCH Q112
S701 IMPEDANCE SELECTOR 4Ω 8Ω
SURR MUTE
VOL +
VOL -
VOL LED
SURR RY
4~8~16
PROTECT IN
CENTER RY
FRONT RY
HP RY IN
KEY MATRIX S102-112
KIN 0
KIN 1
KOUT 0
KOUT 5
BKIO RY
FL CLR
FL LATCH
FL DATA
FL CLK
DISPLAY DRIVE IC181
DISPLAY DRIVE IC182
INDICATOR TUBE FLUORESCENT FL151
FF1
FF2
POWER RY
RX (SIN)
TX (SOUT)
BUSY
OSC SECTION (Page 10)
SYSTEM CONTROL IC107
RESET IC181
RESET S101
POWER S101
B+ (+35V IC101, 102)
+5V REG Q801
RECT D802
B+ (+44.4V)
RELAY DRIVE Q803
RY801
+5V REG IC209
+5V REG IC217
+5V REG IC802
B+ REG IC801
B+ REG Q819
RECT D803
B+ (-12V)
B+ (+35V RY701)
T901 POWER TRANSFORMER
CN901 (AC OUTLET)
RELAY DRIVE Q901
RY901
US, CANADIAN MODEL
AC IN
FV MODEL S902-1 VOLTAGE SELECTOR 120V ~ 240V ~ 220V
D908
+5V (IC101, 102)
+5V SWITCH Q105
+5V SWITCH Q102
B+ REG Q902
RECT D901~904
RECT D905, 906
T902 POWER TRANSFORMER
RESET IC901
VIDEO FUNCTION SWITCH IC211
J208-1 TV VIDEO IN
J209-5 6 VIDEO IN
J210-1 VIDEO 5 VIDEO IN
J205-1 VIDEO 2 VIDEO IN
J299-2 VIDEO 1 VIDEO IN
DECORDER
BUFFER Q214, 219
BUFFER Q216, 215
J209-2 VIDEO 2 VIDEO OUT
J210-2 VIDEO 1 VIDEO OUT
—R-CH is omitted:Same as L-CH—
Signal Path
: FM
OSC SECTION (Page 9)
OSC SECTION (Page 10)
PHONES JACK
VOLUME
TONE
SOUND FIELD
S115
S114
S116
TONE LATCH
BBB MUTE
F MUTE
B CLK
B DATA
B LATCH
AUTO STOP
TUNER MUTE
STEREO
IF DATA IN
A/B SIGNAL IN
A/B KEY IN
V-A
V-B
V-C
LED DRIVE IC108
LED
S101-112
BUFFER
128BIT SHIFT REGISTER
LATCH CIRCUIT
INPUT CONTROL CIRCUIT
LED LATCH
LED CLK
B+ POWER
OSC
OSC
RESET
STOP
SV
SV
B+ 5.6V
S101 POWER
0.22μF MAX
J100
J701
J702
J703
J704
J705
J706
J707
J708
J709
J710
J711
J712
J713
J714
J715
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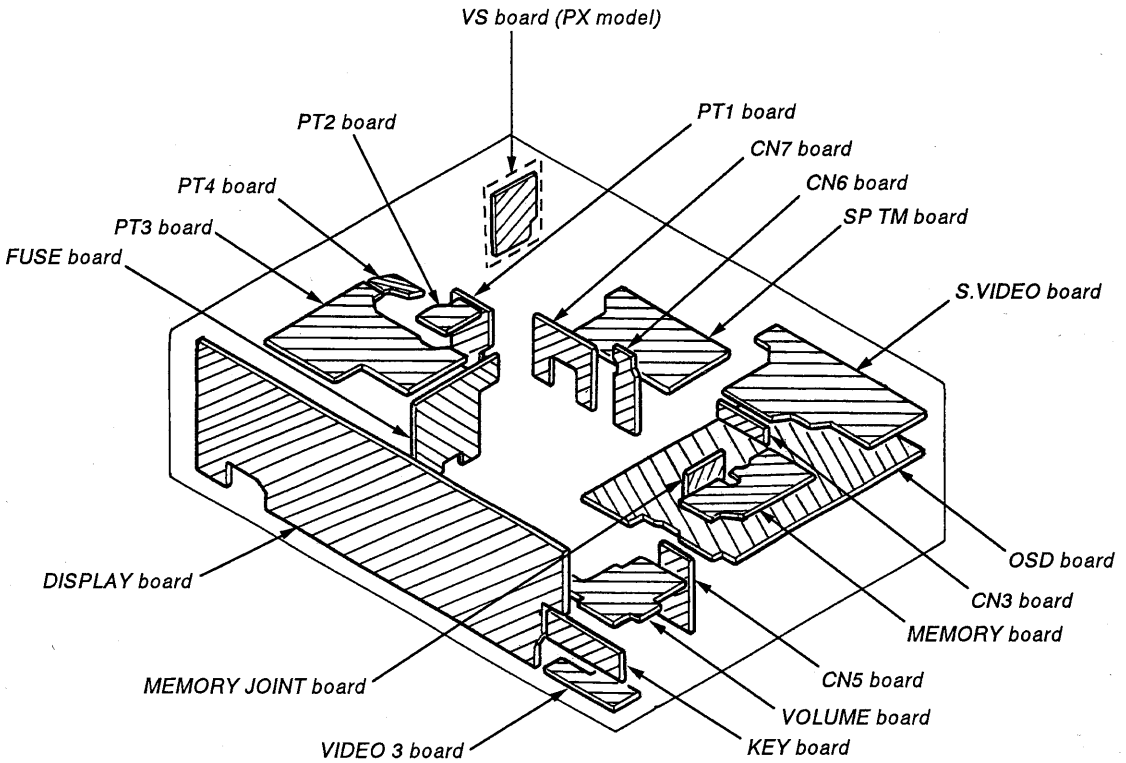
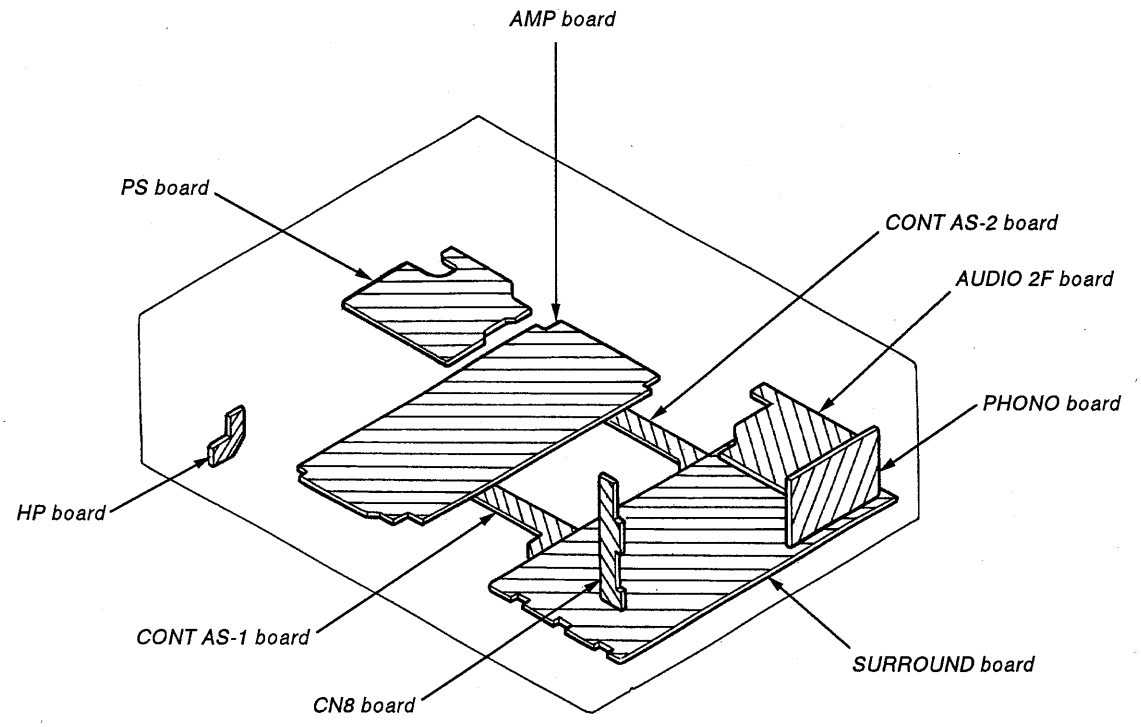
J999

4-3. CIRCUIT BOARDS LOCATION





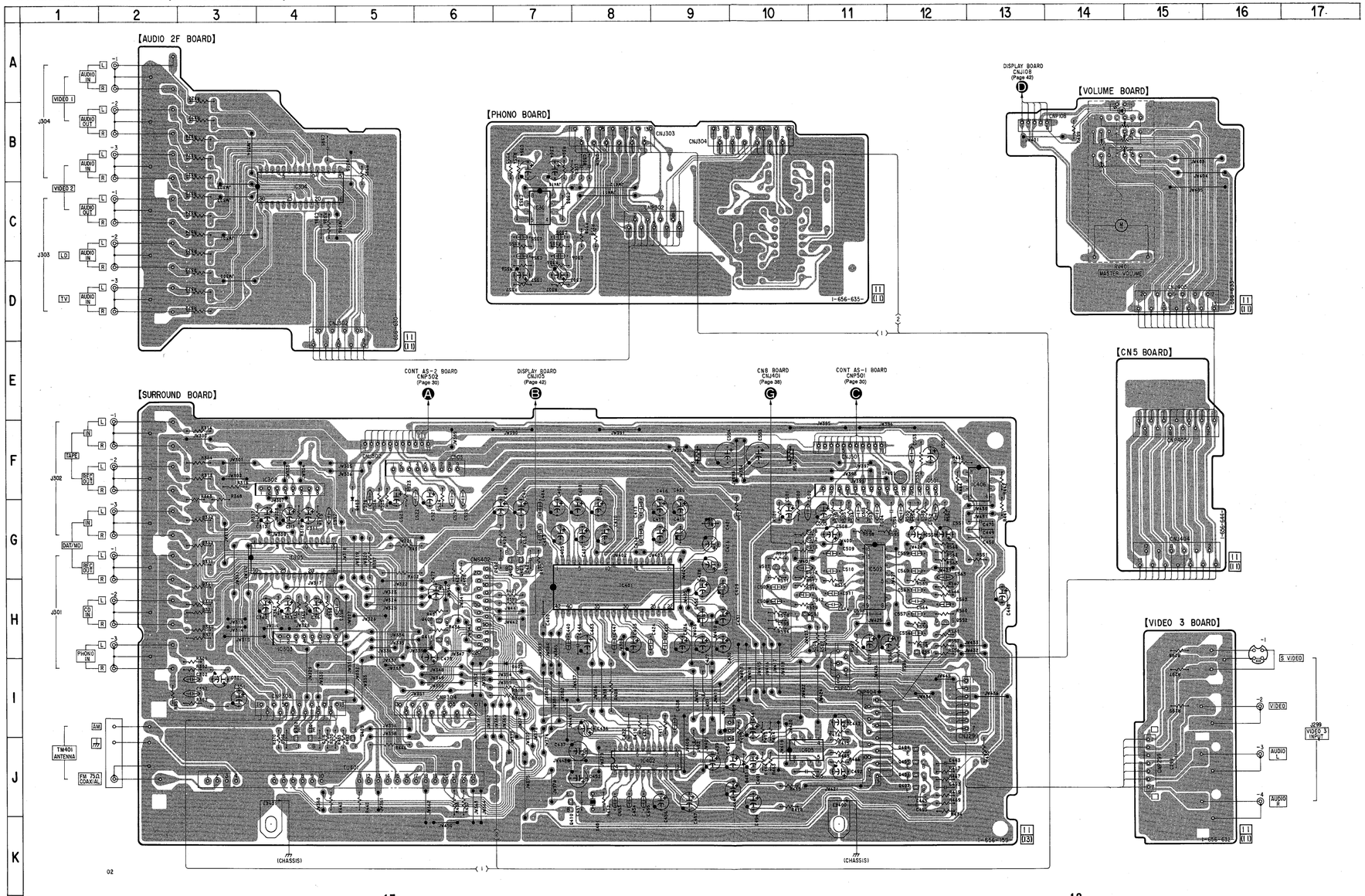
4-4. PRINTED WIRING BOARDS (SURROUND SECTION)

• SEMICONDUCTOR LOCATION

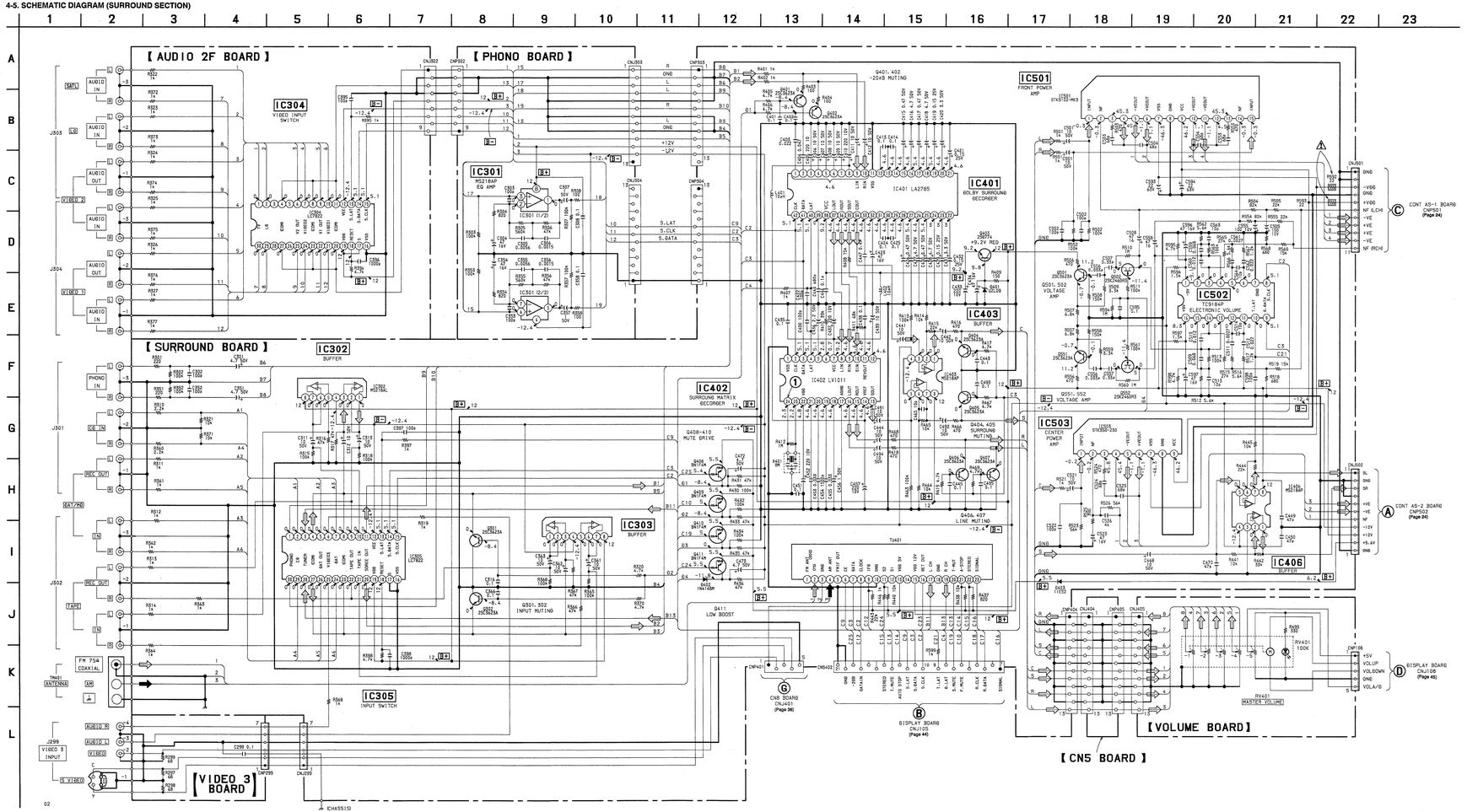
Ref. No.	Location	Ref. No.	Location
D401	J - 10	Q402	G - 7
D402	I - 7	Q403	I - 9
D403	G - 5	Q404	J - 12
		Q405	J - 12
IC301	C - 7	Q406	J - 12
IC302	F - 4	Q407	J - 12
IC303	H - 4	Q408	H - 6
IC304	C - 3	Q409	J - 5
IC305	G - 4	Q410	J - 7
		Q411	H - 6
IC401	H - 8		
IC402	J - 8	Q501	H - 10
IC403	J - 10	Q502	G - 10
IC406	F - 13	Q551	H - 12
IC501	F - 11	Q552	H - 12
IC502	G - 11		
IC503	F - 6		

Note:

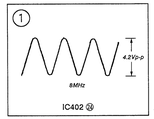
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.



4-5. SCHEMATIC DIAGRAM (SURROUND SECTION)

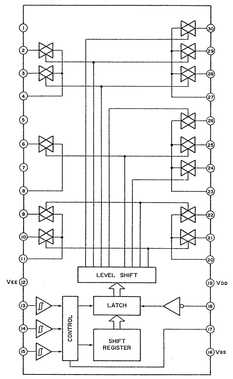


• WAVEFORMS

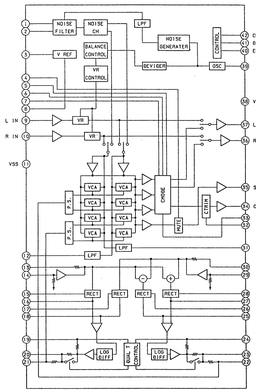


• IC BLOCK DIAGRAMS – SURROUND SECTION –

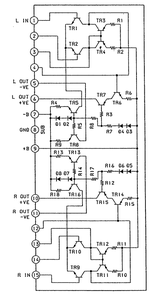
IC304, 305 LC7822



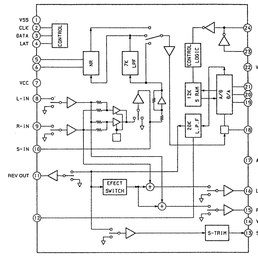
IC401 LA2785



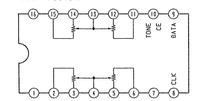
IC501 STK3102-3



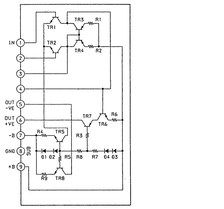
IC402 LV1011



IC502 TC9184P



IC503 STK350-230



Note :

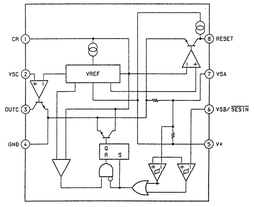
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▲ : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note : Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

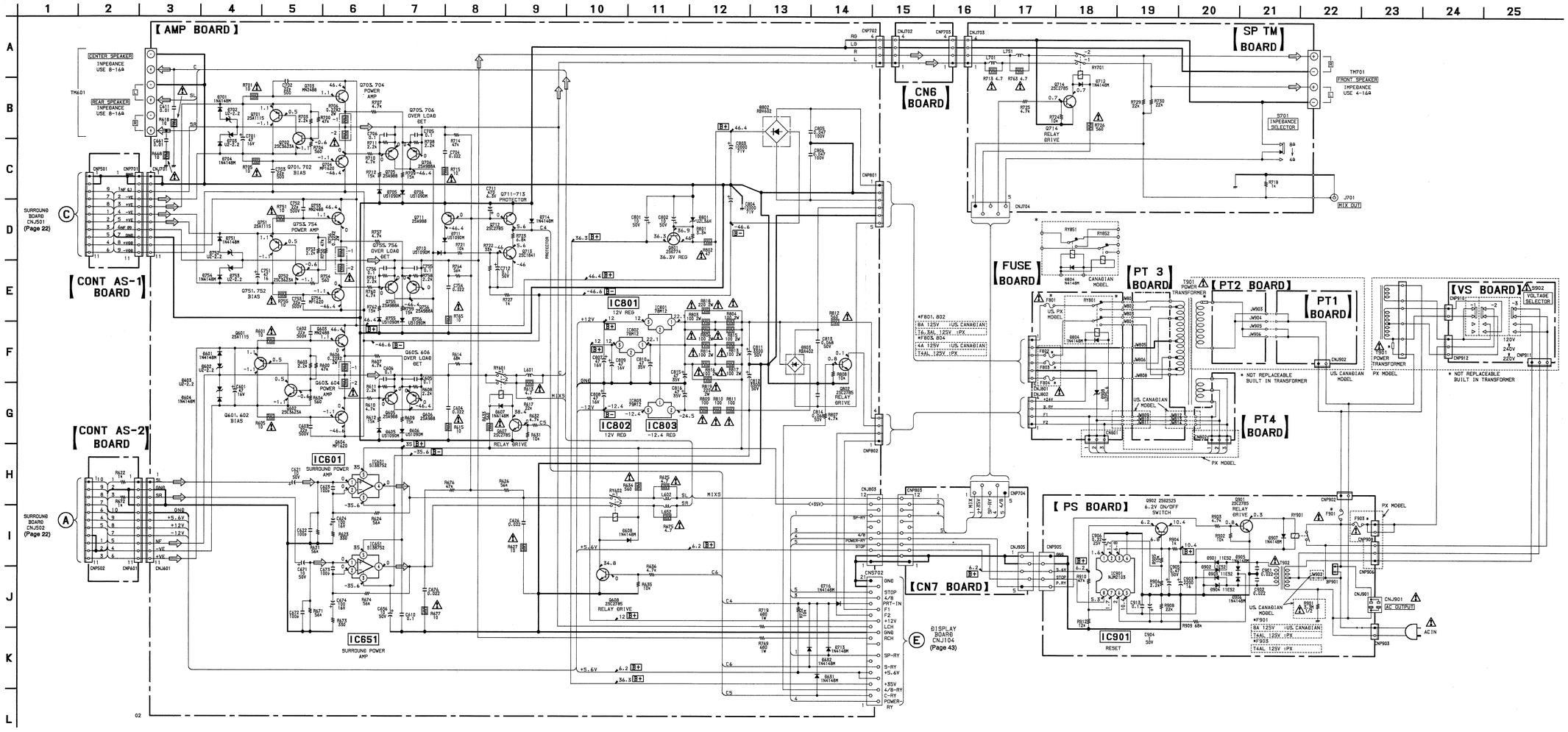
- B+ : B+ Line
- B− : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM

• IC BLOCK DIAGRAM – AMP SECTION –

IC901 NJM2103D



4-6. SCHEMATIC DIAGRAM (AMP SECTION)



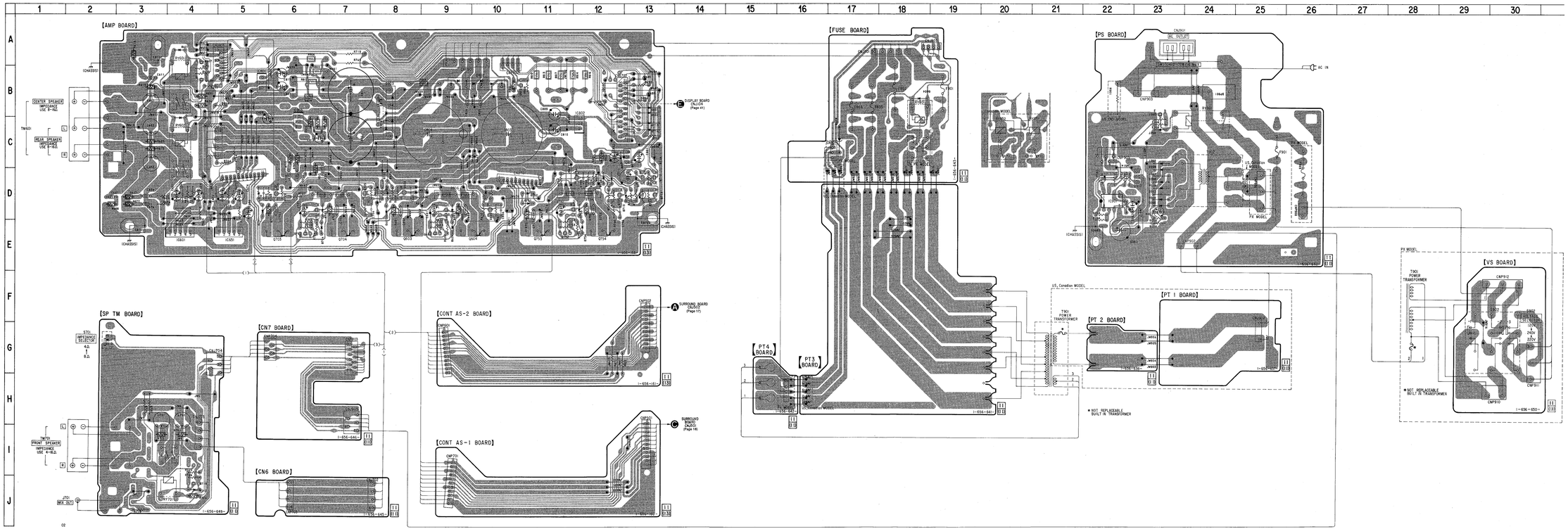
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ⚠ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM

4-7. PRINTED WIRING BOARDS (AMP SECTION)



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D801	D - 8	IC601	E - 4
D802	D - 8	IC651	E - 5
D803	D - 9	IC801	B - 5
D804	D - 9	IC802	C - 12
D805	D - 10	IC803	B - 6
D806	D - 8	IC901	D - 22
D807	A - 4		
D808	C - 4		
D831	B - 13	Q301	J - 4
D832	B - 13	Q302	J - 4
		Q401	G - 7
D701	D - 5	Q601	D - 9
D702	D - 5	Q602	E - 9
D703	D - 7		
D704	E - 7	Q603	E - 8
D705	D - 8	Q604	E - 10
		Q605	D - 10
D706	C - 6	Q606	D - 8
D710	D - 13	Q607	A - 4
D711	D - 13		
D712	J - 4	Q608	B - 4
D713	C - 13	Q701	D - 6
		Q702	E - 6
D714	C - 13	Q703	E - 6
D716	C - 13	Q704	E - 7
D751	D - 11		
D752	D - 11	Q705	D - 7
D753	D - 12	Q706	D - 6
		Q711	D - 13
D754	E - 12	Q712	D - 13
D755	D - 12	Q713	D - 13
D756	D - 12		
D801	C - 12	Q714	J - 4
D802	B - 10	Q751	D - 12
		Q752	E - 11
D803	B - 8	Q753	E - 11
D804	B - 18	Q754	E - 12
D901	C - 23		
D902	D - 23	Q755	D - 12
D903	D - 23	Q756	D - 12
		Q801	C - 13
D904	D - 23	Q802	B - 10
D905	D - 23	Q901	B - 23
D906	D - 23		
D907	C - 23	Q902	D - 23
D908	D - 17		

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

4-8. SCHEMATIC DIAGRAM (OSD SECTION)

• Refer to page 47 for IC Block Diagrams.

• **WAVEFORMS**

① 0.96Vp-p, 14.3MHz — IC214 ㉜

② 0.77Vp-p, 1.99 μsec — IC210, 213 ⑩

③ 4Vp-p, 4MHz — IC209 ㉔

Note :

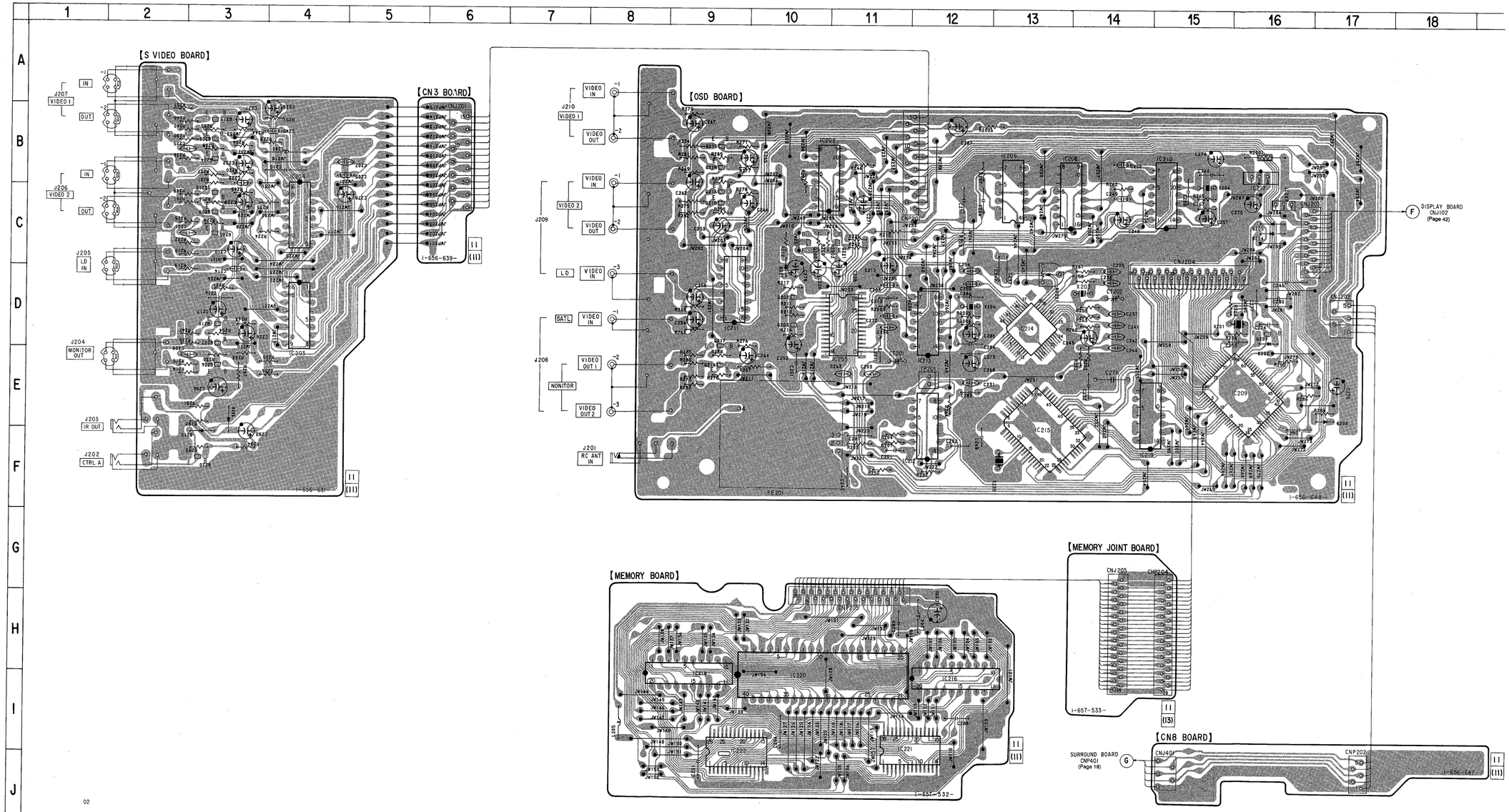
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

【S.VIDEO BOARD】 【OSD BOARD】 【CN3 BOARD】 【CN8 BOARD】 【MEMORY JOINT BOARD】 【MEMORY BOARD】

IC203 C INPUT SWITCH · IC204 Y INPUT SWITCH · IC202 SWITCH · IC212 LOGIC GATE · IC205 OSD · IC209 M59074FS OSD CONTROLLER · IC208 SWITCH · IC206 LOGIC GATE · IC210 Y SYNC · IC211 VIDEO INPUT SWITCH · IC213 Y/C SYNC · IC214 M52012 PLL · IC215 S-1810DF MC CONTROLLER · IC219 LOGIC GATE · IC220 PROGRAM ROM · IC207 +5V REG · IC217 +5V REG · IC208 1/9 · IC216 1/9 · IC222 RAM · IC221 RAM



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	C-10	IC220	I-10
D202	D-16	IC221	I-11
D203	E-17	IC222	I-9
D204	C-16		
D205	C-16		
		Q200	C-10
D206	E-3	Q201	D-16
D210	F-3	Q202	D-10
		Q203	D-10
		Q204	B-3
IC202	B-10		
IC203	D-4	Q205	C-3
IC204	D-4	Q206	E-3
IC205	E-11	Q207	D-3
IC506	B-13	Q208	B-3
		Q209	C-3
IC207	C-16		
IC208	B-13	Q210	D-3
IC209	E-16	Q211	B-3
IC210	B-15	Q212	C-3
IC211	D-9	Q214	E-9
		Q215	B-9
IC212	F-12		
IC213	D-12	Q216	C-9
IC214	D-13	Q217	D-9
IC215	E-13	Q218	B-9
IC216	I-12	Q219	C-9
		Q220	F-3
IC217	B-16		
IC218	H-9	Q221	C-11
IC219	E-14		

Note:

- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.

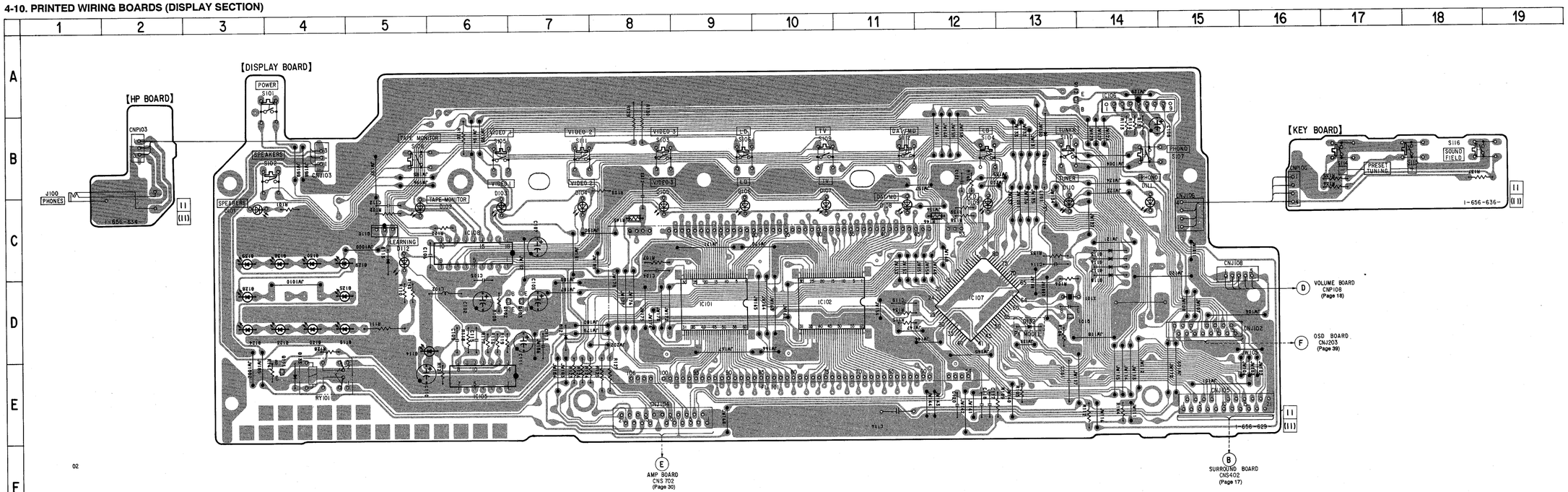
4-10. PRINTED WIRING BOARDS (DISPLAY SECTION)

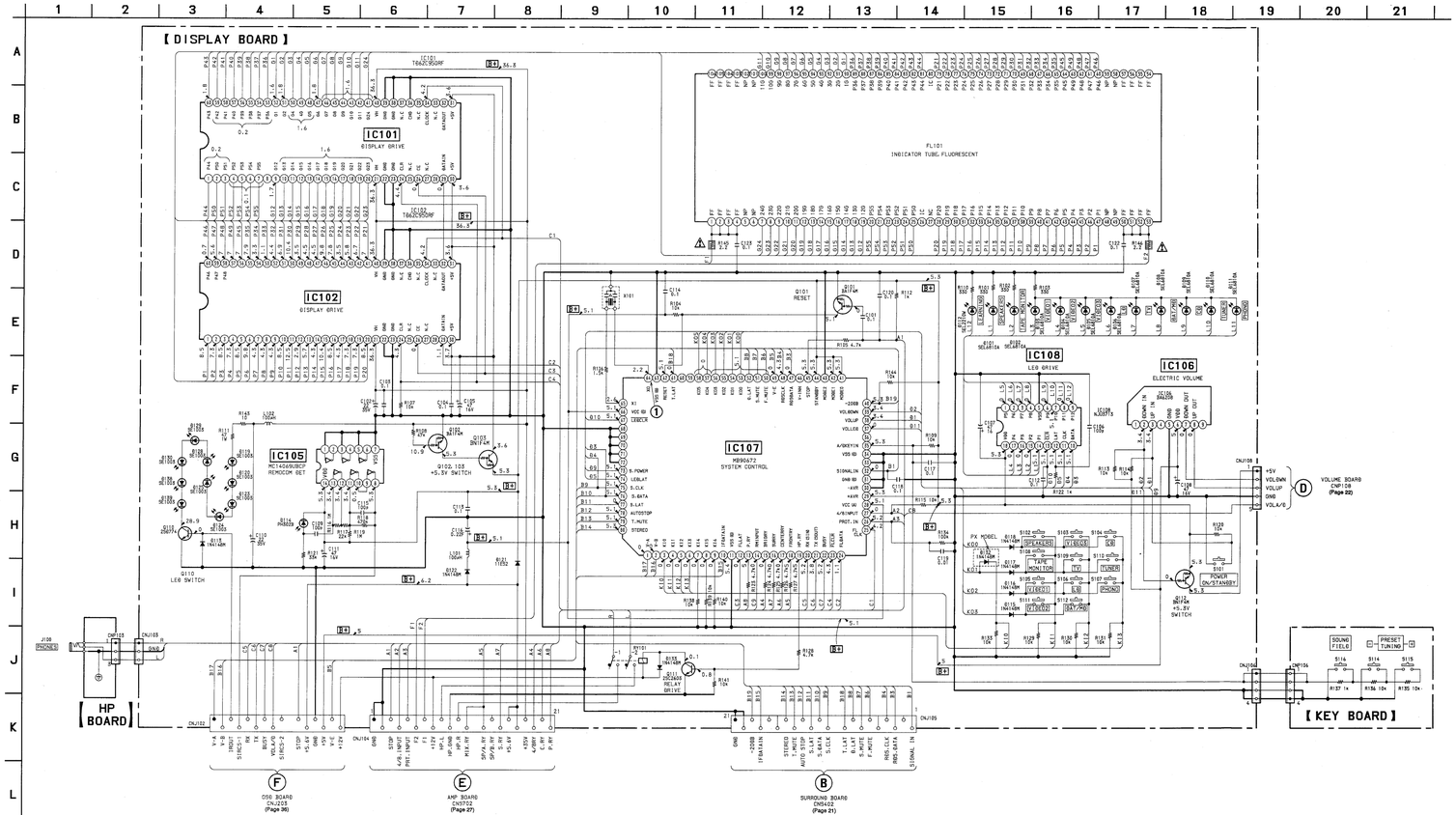
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	C-3	D125	D-4
D102	C-5	D128	D-3
D103	C-6	D129	C-4
D104	C-7	D130	C-4
D105	C-8	D132	D-13
D106	C-9	D133	E-4
D107	C-10	D138	C-4
D108	C-11	D139	C-3
D109	C-12		
D110	C-13	IC101	D-9
D111	C-14	IC102	D-10
D112	C-5	IC105	E-6
D113	C-5	IC106	A-14
D114	D-5	IC107	D-12
D115	C-14	IC108	C-6
D116	C-14		
D117	C-14		
D118	C-14	Q101	D-13
D119	D-4	Q102	D-6
D120	D-4	Q103	D-7
		Q110	C-10
D121	D-7	Q111	E-7
D122	B-13		
D123	D-4	Q112	A-13
D124	D-3		

Note:

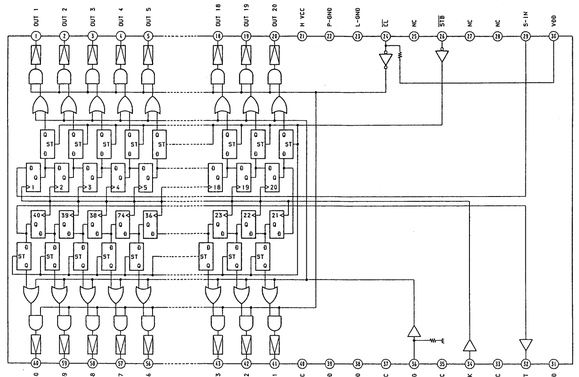
- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.



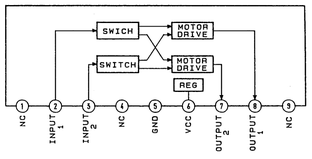


• IC BLOCK DIAGRAMS – DISPLAY SECTION –

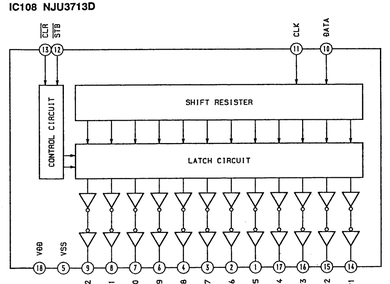
IC101, 102 TD62C950RF



IC106 BA6208



IC108 NJU3713D



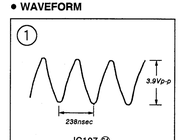
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

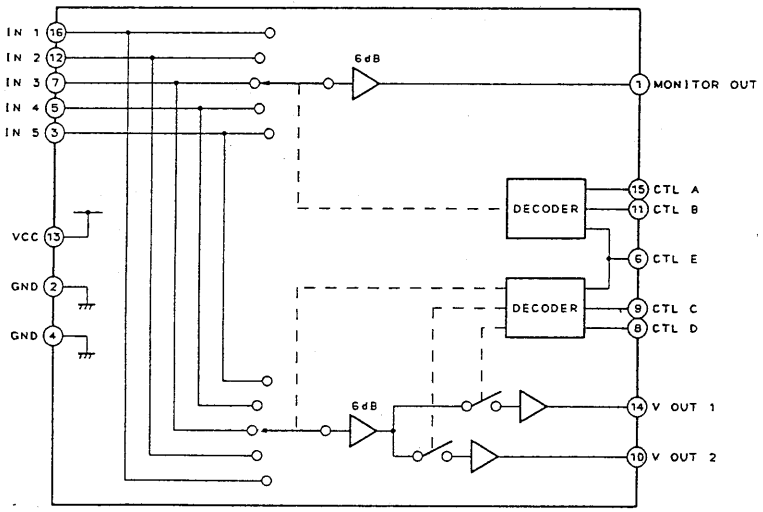
- **B+** : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• WAVEFORM

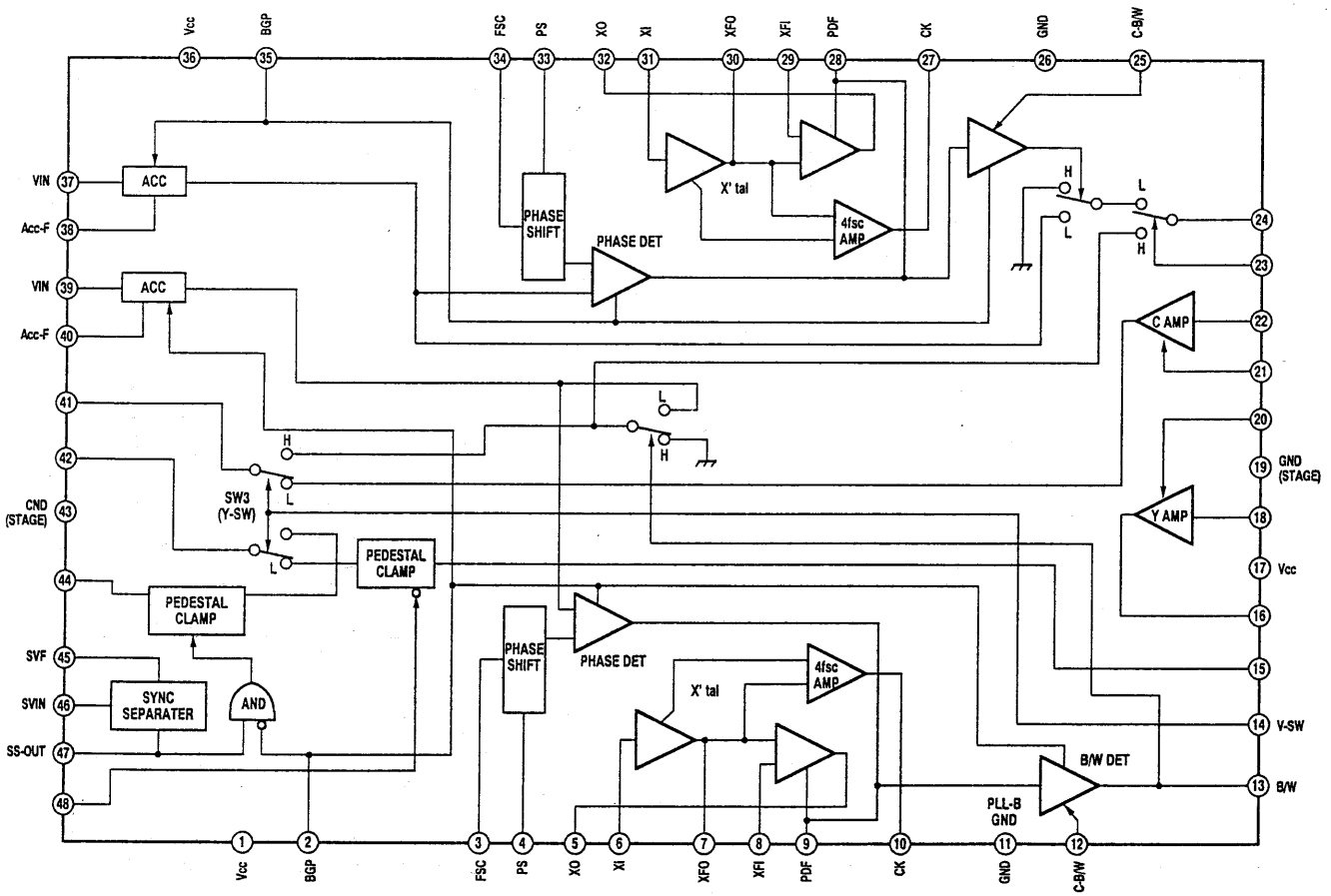


• IC BLOCK DIAGRAMS – OSD SECTION –

IC203, 204, 211 SN761200



IC214 MB3512PFQ



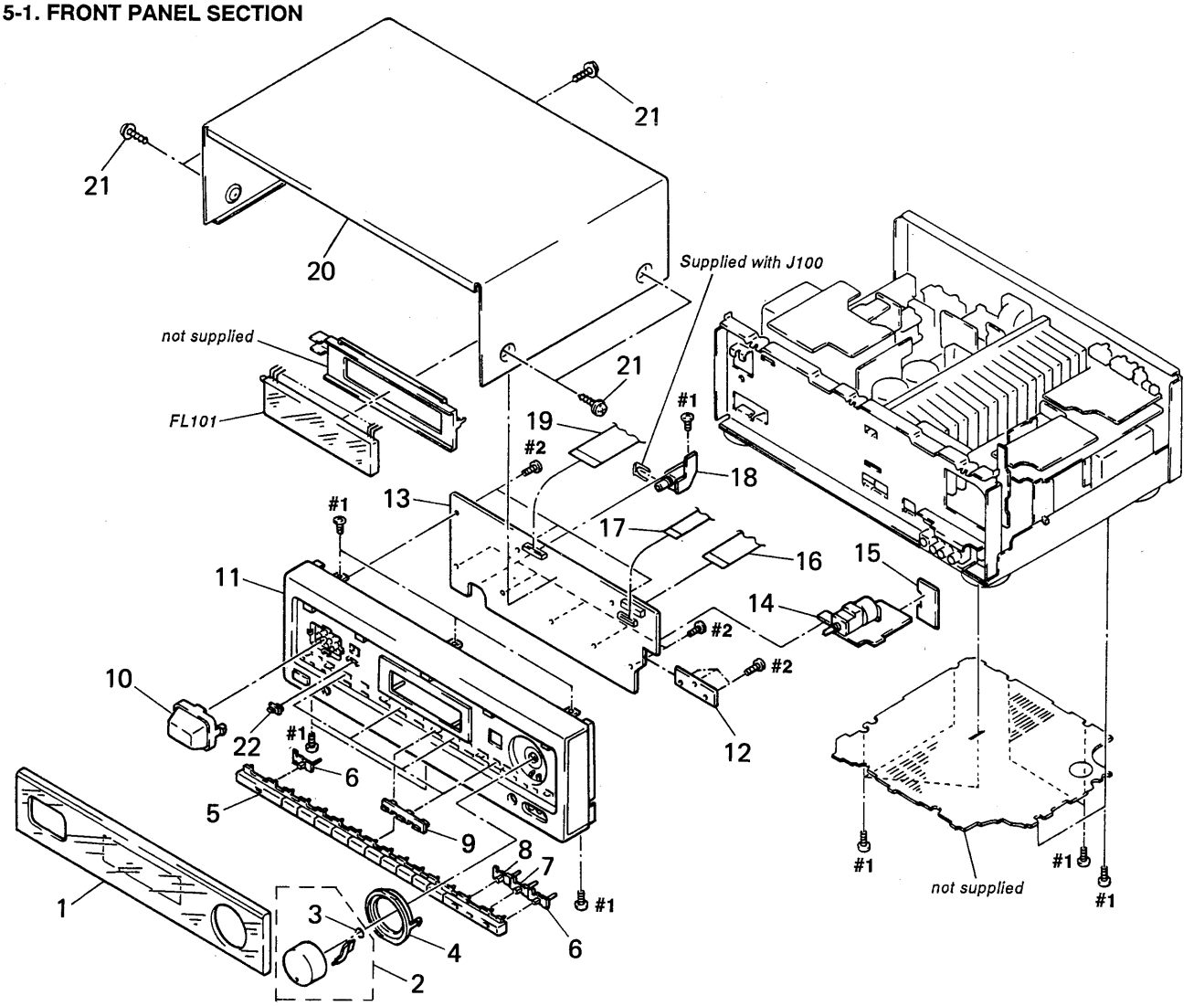
SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

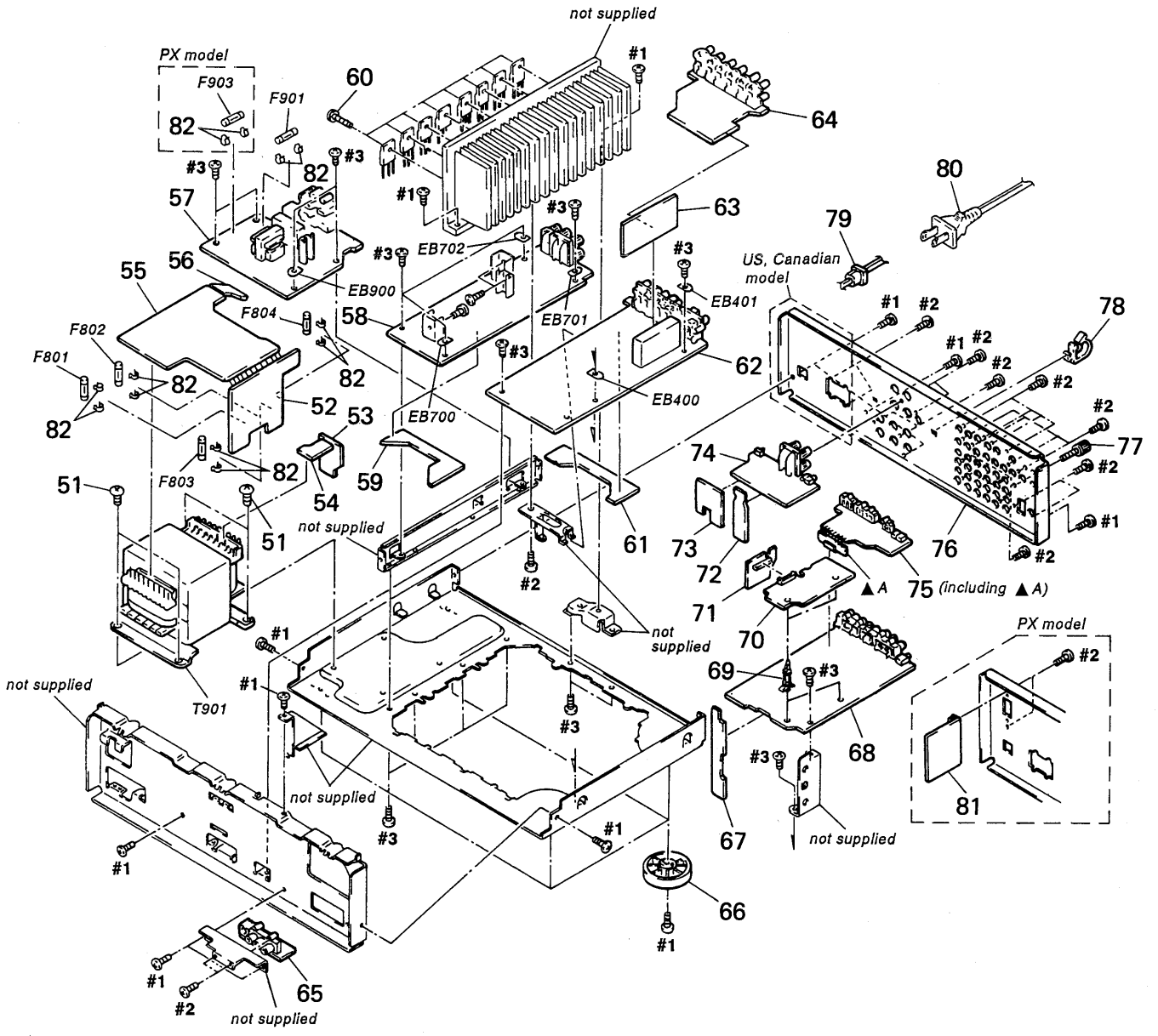
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-974-137-01	PLATE (BO), INDICATION	
2	X-4946-253-1	KNOB (R48) ASSY	
3	3-350-426-01	SPRING, RING	
4	4-974-133-01	RING (VOL), ORNAMENTAL	
5	4-974-135-01	BUTTON (F)	
6	4-974-134-01	BUTTON (S)	
7	4-974-134-21	BUTTON (S)	
8	4-974-134-11	BUTTON (S)	
9	4-974-132-01	INDICATOR (F)	
10	4-974-131-01	COVER (LED)	
11	X-4946-033-1	PANEL ASSY, FRONT	
* 12	1-656-636-11	KEY BOARD	
* 13	A-4377-893-A	DISPLAY BOARD, COMPLETE (US, Canadian)	
* 13	A-4377-943-A	DISPLAY BOARD, COMPLETE (PX)	
* 14	1-656-633-11	VOLUME BOARD	
* 15	1-656-644-11	CN5 BOARD	
16	1-773-723-11	WIRE (FLAT TYPE) (21 CORE)	
17	1-773-603-11	WIRE (FLAT TYPE) (15 CORE)	
* 18	1-656-634-11	HP BOARD	
19	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
20	4-931-031-11	CASE	
21	3-704-366-01	SCREW (CASE) (M3×8)	
22	4-974-125-01	REFLECTOR (LED)	
FL101	1-517-420-11	INDICATOR TUBE, FLUORESCENT	

5-2. CHASSIS SECTION

▲A : CN3 board



Ref. No.	Part No.	Description	Remark
51	4-381-962-11	SCREW +BVTT 4×8 (S)	
* 52	1-656-643-11	FUSE BOARD	
* 53	1-656-637-11	PT1 BOARD (US, Canadian)	
* 54	1-656-638-11	PT2 BOARD (US, Canadian)	
* 55	1-656-641-11	PT3 BOARD	
* 56	1-656-642-11	PT4 BOARD	
* 57	A-4377-906-A	PS BOARD, COMPLETE (US, Canadian)	
* 57	A-4377-945-A	PS BOARD, COMPLETE (PX)	
* 58	A-4377-902-A	AMP BOARD, COMPLETE	
* 59	1-656-160-11	CONT AS-1 BOARD	
60	3-905-609-01	SCREW (TRANSISTOR)	
* 61	1-656-161-11	CONT AS-2 BOARD	
* 62	A-4377-903-A	SURROUND BOARD, COMPLETE	
* 63	1-656-635-11	PHONO BOARD	
* 64	1-656-630-11	AUDIO 2F BOARD	
* 65	1-656-632-11	VIDEO 3 BOARD	
66	X-4942-706-1	FOOT (58175) ASSY	
* 67	1-656-647-11	CN8 BOARD	
* 68	A-4377-913-A	OSD BOARD, COMPLETE	
* 69	3-703-353-07	SUPPORT, PC BOARD	
* 70	1-657-532-11	MEMORY BOARD	
* 71	1-657-533-11	MEMORY JOINT BOARD	
* 72	1-656-645-11	CN6 BOARD	
* 73	1-656-646-11	CN7 BOARD	
* 74	1-656-649-11	SP TM BOARD	
* 75	A-4377-901-A	S. VIDEO BOARD, COMPLETE	
* 76	4-974-130-01	PANEL, BACK (US)	
* 76	4-974-130-11	PANEL, BACK (Canadian)	
* 76	4-974-130-31	PANEL, BACK (PX)	
77	4-947-010-01	SCREW, FEEDER FIXED	

Ref. No.	Part No.	Description	Remark
* 78	4-949-235-01	HOOK	
* 79	3-703-244-00	BUSHING (2104), CORD	
⚠80	1-590-074-11	CORD, POWER (PX)	
⚠80	1-769-743-11	CORD, POWER (US, Canadian)	
* 81	1-656-650-11	VS BOARD (PX)	
82	1-533-217-31	HOLDER, FUSE	
EB400	1-537-770-21	TERMINAL BOARD, GROUND	
EB401	1-537-770-21	TERMINAL BOARD, GROUND	
EB700	1-537-770-21	TERMINAL BOARD, GROUND	
EB701	1-537-770-21	TERMINAL BOARD, GROUND	
EB702	1-537-770-21	TERMINAL BOARD, GROUND	
EB900	1-537-770-21	TERMINAL BOARD, GROUND	
⚠F801	1-532-506-51	FUSE (T6.3AL 125V) (PX)	
⚠F801	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
⚠F802	1-532-506-51	FUSE (T6.3AL 125V) (PX)	
⚠F802	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
⚠F803	1-532-350-00	FUSE (T4AL 125V) (PX)	
⚠F803	1-576-108-11	FUSE (4A 125V) (US, Canadian)	
⚠F804	1-532-350-00	FUSE (T4AL 125V) (PX)	
⚠F804	1-576-108-11	FUSE (4A 125V) (US, Canadian)	
⚠F901	1-532-350-00	FUSE (T4AL 125V) (PX)	
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
⚠F903	1-532-350-00	FUSE (T4AL 125V) (PX)	
⚠T901	1-427-726-11	TRANSFORMER, POWER (US)	
⚠T901	1-427-727-11	TRANSFORMER, POWER (Canadian)	
⚠T901	1-427-976-11	TRANSFORMER, POWER (PX)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 6
ELECTRICAL PARTS LIST

AMP

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4377-902-A	AMP BOARD, COMPLETE **********			
		< CAPACITOR >			
C601	1-104-664-11	ELECT	47uF	20%	16V
C602	1-107-597-11	CERAMIC	22PF	10%	500V
C603	1-107-597-11	CERAMIC	22PF	10%	500V
C604	1-136-157-00	FILM	0. 022uF	5%	50V
C605	1-164-159-11	CERAMIC	0. 1uF		50V
C606	1-164-159-11	CERAMIC	0. 1uF		50V
C610	1-164-159-11	CERAMIC	0. 1uF		50V
C611	1-164-096-11	CERAMIC	0. 01uF		50V
C621	1-124-907-11	ELECT	10uF	20%	50V
C622	1-162-282-31	CERAMIC	100PF	10%	50V
C623	1-162-282-31	CERAMIC	100PF	10%	50V
C624	1-104-665-11	ELECT	100uF	20%	16V
C626	1-136-157-00	FILM	0. 022uF	5%	50V
C656	1-124-907-11	ELECT	10uF	20%	50V
C661	1-164-096-11	CERAMIC	0. 01uF		50V
C671	1-124-907-11	ELECT	10uF	20%	50V
C672	1-162-282-31	CERAMIC	100PF	10%	50V
C673	1-162-282-31	CERAMIC	100PF	10%	50V
C674	1-104-665-11	ELECT	100uF	20%	16V
C676	1-136-157-00	FILM	0. 022uF	5%	50V
C701	1-104-664-11	ELECT	47uF	20%	16V
C702	1-107-597-11	CERAMIC	22PF	10%	500V
C703	1-107-597-11	CERAMIC	22PF	10%	500V
C704	1-136-157-00	FILM	0. 022uF	5%	50V
C705	1-164-159-11	CERAMIC	0. 1uF		50V
C706	1-164-159-11	CERAMIC	0. 1uF		50V
C711	1-126-941-11	ELECT	470uF	20%	6. 3V
C712	1-124-463-00	ELECT	0. 1uF	20%	50V
C751	1-104-664-11	ELECT	47uF	20%	16V
C752	1-107-597-11	CERAMIC	22PF	10%	500V
C753	1-107-597-11	CERAMIC	22PF	10%	500V
C754	1-136-157-00	FILM	0. 022uF	5%	50V
C755	1-164-159-11	CERAMIC	0. 1uF		50V
C756	1-164-159-11	CERAMIC	0. 1uF		50V
C801	1-124-907-11	ELECT	10uF	20%	50V
C802	1-124-907-11	ELECT	10uF	20%	50V
C803	1-109-932-11	ELECT	10000uF	20%	71V
C804	1-109-932-11	ELECT	10000uF	20%	71V
C805	1-137-420-11	FILM	0. 047uF	10%	100V
C806	1-137-420-11	FILM	0. 047uF	10%	100V
C807-809	1-104-664-11	ELECT	47uF	20%	16V
C810	1-126-967-11	ELECT	47uF	20%	35V
C811	1-126-974-11	ELECT	3300uF	20%	50V
C812	1-126-974-11	ELECT	3300uF	20%	50V
C813	1-136-495-11	FILM	0. 068uF	5%	50V
C814	1-136-495-11	FILM	0. 068uF	5%	50V
C815	1-126-967-11	ELECT	47uF	20%	35V
C816	1-126-967-11	ELECT	47uF	20%	35V
		< CONNECTOR >			
CNJ601	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNJ701	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNJ803	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P			
CNP702	1-770-481-11	PIN, CONNECTOR 4P			
* CNP801	1-564-792-11	PIN, CONNECTOR (WITH LOCK) 5P			
* CNP802	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P			
CNS702	1-764-926-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			
		< DIODE >			
D601	8-719-987-63	DIODE	1N4148M		
D602	8-719-010-06	DIODE	UZ-2. 2BS		
D603	8-719-010-06	DIODE	UZ-2. 2BS		
D604	8-719-987-63	DIODE	1N4148M		

AMP

Ref. No.	Part No.	Description	Remark
D605	8-719-815-85	DIODE 1S1585	
D606	8-719-815-85	DIODE 1S1585	
D607	8-719-987-63	DIODE 1N4148M	
D608	8-719-987-63	DIODE 1N4148M	
D631	8-719-987-63	DIODE 1N4148M	
D632	8-719-987-63	DIODE 1N4148M	
D701	8-719-987-63	DIODE 1N4148M	
D702	8-719-010-06	DIODE UZ-2.2BS	
D703	8-719-010-06	DIODE UZ-2.2BS	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-815-85	DIODE 1S1585	
D706	8-719-815-85	DIODE 1S1585	
D710	8-719-815-85	DIODE 1S1585	
D711	8-719-815-85	DIODE 1S1585	
D713	8-719-987-63	DIODE 1N4148M	
D714	8-719-987-63	DIODE 1N4148M	
D716	8-719-987-63	DIODE 1N4148M	
D751	8-719-987-63	DIODE 1N4148M	
D752	8-719-010-06	DIODE UZ-2.2BS	
D753	8-719-010-06	DIODE UZ-2.2BS	
D754	8-719-987-63	DIODE 1N4148M	
D755	8-719-815-85	DIODE 1S1585	
D756	8-719-815-85	DIODE 1S1585	
D801	8-719-002-76	DIODE UZL-36H	
D802	8-719-302-38	DIODE RBV-602-01	
D803	8-719-025-03	DIODE RBA-402-SL	
		< GROUND TERMINAL BOARD >	
EB700-702			
	1-537-770-21	TERMINAL BOARD, GROUND	
		< IC >	
IC601	8-759-069-56	IC LM3875-Q	
IC651	8-759-069-56	IC LM3875-Q	
IC801	8-759-263-43	IC TA78M12S	
IC802	8-759-263-43	IC TA78M12S	
IC803	8-759-604-45	IC M5F79M12	
		< COIL >	
L601	1-420-872-00	COIL, AIR-CORE	
L602	1-420-872-00	COIL, AIR-CORE	
L652	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q603	8-749-010-25	IC MN2488-OPY-M	
Q604	8-749-010-26	IC MN1620-OPY-M	
Q605	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q606	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q607	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q608	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MN1620-OPY-M	
Q705	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q706	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q711	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q712	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q753	8-749-010-25	IC MN2488-OPY-M	
Q754	8-749-010-26	IC MN1620-OPY-M	
Q755	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q756	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-119-79	TRANSISTOR 2SC2785-FEK	
		< RESISTOR >	
R600	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R601	1-249-393-11	CARBON 10 5% 1/4W	F
R603	1-249-421-11	CARBON 2.2K 5% 1/4W	
R604	1-249-414-11	CARBON 560 5% 1/4W	
⚠R605	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R606	1-233-352-21	ENCAPSULATED COMPONENT	F
R607	1-249-425-11	CARBON 4.7K 5% 1/4W	
R608	1-249-421-11	CARBON 2.2K 5% 1/4W	
R609	1-249-431-11	CARBON 15K 5% 1/4W	
R610	1-249-425-11	CARBON 4.7K 5% 1/4W	
R611	1-249-421-11	CARBON 2.2K 5% 1/4W	
R612	1-249-431-11	CARBON 15K 5% 1/4W	
⚠R613	1-249-389-11	CARBON 4.7 5% 1/4W	F
R614	1-249-439-11	CARBON 68K 5% 1/4W	
⚠R615	1-249-393-11	CARBON 10 5% 1/4W	F
R617	1-249-435-11	CARBON 33K 5% 1/4W	
⚠R618	1-249-393-11	CARBON 10 5% 1/4W	F
R621	1-249-438-11	CARBON 56K 5% 1/4W	
R622	1-249-417-11	CARBON 1K 5% 1/4W	
R623	1-249-411-11	CARBON 330 5% 1/4W	
R624	1-249-438-11	CARBON 56K 5% 1/4W	
⚠R625	1-249-389-11	CARBON 4.7 5% 1/4W	F
R626	1-249-438-11	CARBON 56K 5% 1/4W	
⚠R627	1-249-393-11	CARBON 10 5% 1/4W	F
R631	1-249-429-11	CARBON 10K 5% 1/4W	
R632	1-249-425-11	CARBON 4.7K 5% 1/4W	
⚠R633	1-249-414-11	CARBON 560 5% 1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
⚠R634	1-249-414-11	CARBON	560	5%	1/4W	F
R635	1-249-429-11	CARBON	10K	5%	1/4W	
R636	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R668	1-249-393-11	CARBON	10	5%	1/4W	F
R671	1-249-438-11	CARBON	56K	5%	1/4W	
R672	1-249-417-11	CARBON	1K	5%	1/4W	
R673	1-249-411-11	CARBON	330	5%	1/4W	
R674	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R675	1-249-389-11	CARBON	4.7	5%	1/4W	F
R676	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R677	1-249-393-11	CARBON	10	5%	1/4W	F
R700	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R701	1-249-393-11	CARBON	10	5%	1/4W	F
R703	1-249-421-11	CARBON	2.2K	5%	1/4W	
R704	1-249-414-11	CARBON	560	5%	1/4W	
⚠R705	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R706	1-233-352-21	ENCAPSULATED COMPONENT				F
R707	1-249-425-11	CARBON	4.7K	5%	1/4W	
R708	1-249-421-11	CARBON	2.2K	5%	1/4W	
R709	1-249-431-11	CARBON	15K	5%	1/4W	
R710	1-249-425-11	CARBON	4.7K	5%	1/4W	
R711	1-249-421-11	CARBON	2.2K	5%	1/4W	
R712	1-249-431-11	CARBON	15K	5%	1/4W	
R714	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R715	1-249-393-11	CARBON	10	5%	1/4W	F
R719	1-215-868-00	METAL OXIDE	680	5%	1W	
R721	1-249-429-11	CARBON	10K	5%	1/4W	
R722	1-249-435-11	CARBON	33K	5%	1/4W	
R723	1-249-427-11	CARBON	6.8K	5%	1/4W	
R727	1-249-417-11	CARBON	1K	5%	1/4W	
R732	1-249-429-11	CARBON	10K	5%	1/4W	
R750	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R751	1-249-393-11	CARBON	10	5%	1/4W	F
R753	1-249-421-11	CARBON	2.2K	5%	1/4W	
R754	1-249-414-11	CARBON	560	5%	1/4W	
⚠R755	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R756	1-233-352-21	ENCAPSULATED COMPONENT				F
R757	1-249-425-11	CARBON	4.7K	5%	1/4W	
R758	1-249-421-11	CARBON	2.2K	5%	1/4W	
R759	1-249-431-11	CARBON	15K	5%	1/4W	
R760	1-249-425-11	CARBON	4.7K	5%	1/4W	
R761	1-249-421-11	CARBON	2.2K	5%	1/4W	
R762	1-249-431-11	CARBON	15K	5%	1/4W	
R764	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R765	1-249-393-11	CARBON	10	5%	1/4W	F
R769	1-215-868-00	METAL OXIDE	680	5%	1W	
R801	1-249-423-11	CARBON	3.3K	5%	1/4W	
⚠R802	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R803	1-215-886-11	METAL OXIDE	100	5%	2W	F
⚠R804	1-215-886-11	METAL OXIDE	100	5%	2W	F
⚠R806	1-215-886-11	METAL OXIDE	100	5%	2W	F
R807	1-249-425-11	CARBON	4.7K	5%	1/4W	
R808	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R809-811	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R812	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R813-817	1-215-886-11	METAL OXIDE	100	5%	2W	F
⚠R818	1-215-888-00	METAL OXIDE	220	5%	2W	F
⚠R819	1-215-888-00	METAL OXIDE	220	5%	2W	F
		< RELAY >				
RY601	1-515-765-11	RELAY				
RY602	1-515-920-11	RELAY (24V)				
		< TERMINAL >				
* TM601	1-537-882-11	TERMINAL BOARD 6P (CENTER/REAR SPEAKER)				
*	1-656-630-11	AUDIO 2F BOARD				
		< CAPACITOR >				
C395	1-162-282-31	CERAMIC	100PF	10%	50V	
C396	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
CNJ302	1-695-093-11	SOCKET, CONNECTOR 9P				
		< IC >				
IC304	8-759-805-14	IC LC7822				
		< JACK >				
J303	1-691-887-11	JACK, PIN 6P (TV/LD AUDIO IN, VIDEO 2 AUDIO OUT)				
J304	1-580-825-11	JACK, PIN 6P (VIDEO 1 AUDIO IN/OUT, VIDEO 2 AUDIO IN)				
		< RESISTOR >				
R322-327	1-249-417-11	CARBON	1K	5%	1/4W	
R372-377	1-249-417-11	CARBON	1K	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-425-11	CARBON	4.7K	5%	1/4W	

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CN5 CN6 CN7 CN8 CONT AS-1 CONT AS-2 DISPLAY

Ref. No.	Part No.	Description	Remark
*	1-656-644-11	CN5 BOARD	
		*********	
		< CONNECTOR >	
	CNJ404 1-695-095-11	SOCKET, CONNECTOR 13P	
	CNP405 1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P	
**********			
*	1-656-645-11	CN6 BOARD	
		*********	
		< CONNECTOR >	
	CNJ702 1-770-569-11	SOCKET 4P	
	CNP703 1-770-481-11	PIN, CONNECTOR 4P	
**********			
*	1-656-646-11	CN7 BOARD	
		*********	
		< CONNECTOR >	
	CNJ905 1-750-179-11	SOCKET, CONNECTOR 5P	
	CNP704 1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	
	CNP803 1-770-407-11	CONNECTOR, BOARD TO BOARD 12P	
**********			
*	1-656-647-11	CN8 BOARD	
		*********	
		< CONNECTOR >	
	CNJ401 1-750-179-11	SOCKET, CONNECTOR 5P	
	CNP202 1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	
**********			
*	1-656-160-11	CONT AS-1 BOARD	
		**********	
		< CONNECTOR >	
	CNP501 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
	CNP701 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
**********			
*	1-656-161-11	CONT AS-2 BOARD	
		**********	
		< CONNECTOR >	
	CNP502 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
	CNP601 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
**********			

Ref. No.	Part No.	Description			Remark
*	A-4377-893-A	DISPLAY BOARD, COMPLETE (US, Canadian)			
*	A-4377-943-A	DISPLAY BOARD, COMPLETE (PX)			
		**********			
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-124-916-11	ELECT	22uF	20%	63V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-164-159-11	CERAMIC	0.1uF		50V
C105	1-124-589-11	ELECT	47uF	20%	16V
C106	1-162-282-31	CERAMIC	100PF	10%	50V
C107	1-124-589-11	ELECT	47uF	20%	16V
C108	1-124-589-11	ELECT	47uF	20%	16V
C109	1-162-282-31	CERAMIC	100PF	10%	50V
C110	1-124-916-11	ELECT	22uF	20%	63V
C111	1-124-589-11	ELECT	47uF	20%	16V
C112-114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-162-282-31	CERAMIC	100PF	10%	50V
C116	1-104-905-11	CAP, DOUBLE LAYERS	0.22F		
C117	1-164-159-11	CERAMIC	0.1uF		50V
C118	1-164-159-11	CERAMIC	0.1uF		50V
C119	1-162-306-11	CERAMIC	0.01uF	30%	16V
C120	1-164-159-11	CERAMIC	0.1uF		50V
C122	1-164-159-11	CERAMIC	0.1uF		50V
C123	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNJ102	1-764-956-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P			
CNJ103	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P			
CNJ104	1-766-034-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			
CNJ105	1-770-718-11	SOCKET, CONNECTOR 22P			
* CNJ106	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
CNJ108	1-770-398-11	HOUSING, CONNECTOR (PC BOARD) 5P			
		< DIODE >			
D101	8-719-301-49	LED	SEL2810A	(SPERAKERS)	
D102	8-719-301-49	LED	SEL2810A	(TAPE MONITOR)	
D103	8-719-301-49	LED	SEL2810A	(VIDEO 1)	
D104	8-719-301-49	LED	SEL2810A	(VIDEO 2)	
D105	8-719-301-49	LED	SEL2810A	(VIDEO 3)	
D106	8-719-301-49	LED	SEL2810A	(LD)	
D107	8-719-301-49	LED	SEL2810A	(TV)	
D108	8-719-301-49	LED	SEL2810A	(DAT/MD)	
D109	8-719-301-49	LED	SEL2810A	(CD)	
D110	8-719-301-49	LED	SEL2810A	(TUNER)	
D111	8-719-301-49	LED	SEL2810A	(PHONO)	
D112	8-719-313-43	LED	SEL6210S-TH10	(LEARNING)	
D113	8-719-987-63	DIODE	1N4148M		

Ref. No.	Part No.	Description				Remark
D114	8-719-118-33	DIODE	PH302D			
D115-118						
	8-719-987-63	DIODE	1N4148M			
D119	8-719-053-79	LED	SE1003-C-TP			
D120	8-719-053-79	LED	SE1003-C-TP			
D121	8-719-024-99	DIODE	11ES2-NTA2B			
D122	8-719-987-63	DIODE	1N4148M			
D123-125						
	8-719-053-79	LED	SE1003-C-TP			
D128-130						
	8-719-053-79	LED	SE1003-C-TP			
D132	8-719-987-63	DIODE	1N4148M (PX)			
D133	8-719-987-63	DIODE	1N4148M			
D138	8-719-053-79	LED	SE1003-C-TP			
D139	8-719-053-79	LED	SE1003-C-TP			
		< INDICATOR TUBE >				
FL101	1-517-420-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC101	8-759-075-35	IC	TD62C950RF			
IC102	8-759-075-35	IC	TD62C950RF			
IC105	8-759-240-69	IC	TC4069UBP			
IC106	8-759-962-08	IC	BA6208			
IC107	8-759-342-43	IC	MB90673PF-G-113-BND			
IC108	8-759-060-73	IC	NJU3713D			
		< COIL >				
L101	1-410-509-11	INDUCTOR	10uH			
L102	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q101	8-729-900-36	TRANSISTOR	DTC124ES			
Q102	8-729-900-36	TRANSISTOR	DTC124ES			
Q103	8-729-900-63	TRANSISTOR	DTA124ES			
Q110	8-729-140-96	TRANSISTOR	2SD774-34			
Q111	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q112	8-729-900-63	TRANSISTOR	DTA124ES			
		< RESISTOR >				
R101-103						
	1-249-411-11	CARBON	330	5%	1/4W	
R104	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-249-425-11	CARBON	4.7K	5%	1/4W	
R106	1-249-419-11	CARBON	1.5K	5%	1/4W	
R107	1-249-429-11	CARBON	10K	5%	1/4W	
R108	1-249-437-11	CARBON	47K	5%	1/4W	
R109	1-249-429-11	CARBON	10K	5%	1/4W	
R110	1-249-411-11	CARBON	330	5%	1/4W	
R111	1-215-861-00	METAL OXIDE	47	5%	1W	
R112	1-249-417-11	CARBON	1K	5%	1/4W	
R113-115						
	1-249-429-11	CARBON	10K	5%	1/4W	
R116	1-247-903-00	CARBON	1M	5%	1/4W	
R117	1-249-433-11	CARBON	22K	5%	1/4W	
R118	1-247-895-00	CARBON	470K	5%	1/4W	
R119	1-247-903-00	CARBON	1M	5%	1/4W	
R120	1-249-429-11	CARBON	10K	5%	1/4W	
R121	1-249-435-11	CARBON	33K	5%	1/4W	
R122	1-249-417-11	CARBON	1K	5%	1/4W	
R123-128						
	1-249-425-11	CARBON	4.7K	5%	1/4W	
R129-131						
	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-429-11	CARBON	10K	5%	1/4W	
R134	1-249-441-11	CARBON	100K	5%	1/4W	
R138-141						
	1-249-429-11	CARBON	10K	5%	1/4W	
R143	1-249-393-11	CARBON	10	5%	1/4W	
R144	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R145	1-249-385-11	CARBON	2.2	5%	1/6W	F
⚠R146	1-249-385-11	CARBON	2.2	5%	1/6W	F
		< RELAY >				
RY101	1-515-614-11	RELAY				
		< SWITCH >				
S101	1-554-303-21	SWITCH, TACTILE (POWER)				
S102	1-554-303-21	SWITCH, TACTILE (SPEAKERS)				
S103	1-554-303-21	SWITCH, TACTILE (VIDEO 3)				
S104	1-554-303-21	SWITCH, TACTILE (CD)				
S105	1-554-303-21	SWITCH, TACTILE (VIDEO 1)				
S106	1-554-303-21	SWITCH, TACTILE (LD)				
S107	1-554-303-21	SWITCH, TACTILE (PHONO)				
S108	1-554-303-21	SWITCH, TACTILE (TAPE MONITOR)				
S109	1-554-303-21	SWITCH, TACTILE (TV)				
S110	1-554-303-21	SWITCH, TACTILE (TUNER)				
S111	1-554-303-21	SWITCH, TACTILE (VIDEO 2)				
S112	1-554-303-21	SWITCH, TACTILE (DAT/MD)				
		< VIBRATOR >				
X101	1-567-819-11	VIBRATOR, CERAMIC (4MHz)				

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FUSE | HP | KEY | MEMORY | MEMORY JOINT | OSD

Ref.No.	Part No.	Description	Remark
*	1-656-643-11	FUSE BOARD	
		**********	
	1-533-217-31	HOLDER, FUSE	
		< CONNECTOR >	
CNJ801	1-750-390-11	SOCKET 5P	
* CNJ802	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
		< DIODE >	
D804	8-719-987-63	DIODE 1N4148M	
D908	8-719-014-66	DIODE UZP-5.6B	
		< FUSE >	
⚠F801	1-532-506-51	FUSE (T6.3AL 125V) (PX)	
⚠F801	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
⚠F802	1-532-506-51	FUSE (T6.3AL 125V) (PX)	
⚠F802	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
⚠F803	1-532-350-00	FUSE (T4AL 125V) (PX)	
⚠F803	1-576-108-11	FUSE (4A 125V) (US, Canadian)	
⚠F804	1-532-350-00	FUSE (T4AL 125V) (PX)	
⚠F804	1-576-108-11	FUSE (4A 125V) (US, Canadian)	
		< RELAY >	
RY801	1-515-894-11	RELAY (US, PX)	
RY851	1-515-918-11	RELAY (Canadian)	
RY852	1-515-918-11	RELAY (Canadian)	
**********			
*	1-656-634-11	HP BOARD	
		********	
		< CONNECTOR >	
CNP103	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P	
		< JACK >	
J100	1-568-519-41	JACK, LARGE TYPE (PHONES)	
**********			
*	1-656-636-11	KEY BOARD	
		*********	
		< CONNECTOR >	
* CNP106	1-565-295-11	PLUG, CONNECTOR 4P	
		< RESISTOR >	
R135	1-249-429-11	CARBON 10K 5% 1/4W	
R136	1-249-429-11	CARBON 10K 5% 1/4W	
R137	1-249-417-11	CARBON 1K 5% 1/4W	
		< SWITCH >	
S114	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)	
S115	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)	
S116	1-554-303-21	SWITCH, TACTILE (SOUND FIELD)	
**********			
*	1-657-532-11	MEMORY BOARD	
		**********	
		< CAPACITOR >	
C288	1-164-159-11	CERAMIC 0.1uF 50V	
C289	1-164-159-11	CERAMIC 0.1uF 50V	
C290	1-104-664-11	ELECT 47uF 20% 16V	
C291	1-164-159-11	CERAMIC 0.1uF 50V	
C294	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CNP205	1-764-238-11	CONNECTOR, BOARD TO BOARD 28P	
		< IC >	
IC216	8-759-916-94	IC SN74HC373AN	
IC218	8-759-916-94	IC SN74HC373AN	
IC220	8-759-343-24	IC MX23C2048PC-12STR-G3	
IC221	8-759-289-94	IC LH5160TF	
IC222	8-759-289-94	IC LH5160TF	
		< COIL >	
L204	1-410-521-11	INDUCTOR 100uH	
L205	1-410-521-11	INDUCTOR 100uH	
**********			
*	1-657-533-11	MEMORY JOINT BOARD	
		**********	
		< CONNECTOR >	
CNJ205	1-764-235-11	CONNECTOR, BOARD TO BOARD 28P	
CNP204	1-764-238-11	CONNECTOR, BOARD TO BOARD 28P	
**********			
*	A-4377-913-A	OSD BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C200	1-124-903-11	ELECT 1uF 20% 50V	
C201	1-164-159-11	CERAMIC 0.1uF 50V	
C202	1-164-159-11	CERAMIC 0.1uF 50V	
C203	1-164-031-11	CERAMIC 33PF 5% 50V	
C204	1-164-159-11	CERAMIC 0.1uF 50V	

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Ref. No.	Part No.	Description			Remark
C206	1-164-035-11	CERAMIC	47PF	5%	50V
C208	1-124-903-11	ELECT	1uF	20%	50V
C211	1-162-290-31	CERAMIC	470PF	10%	50V
C212	1-124-443-00	ELECT	100uF	20%	10V
C213	1-164-159-11	CERAMIC	0.1uF		50V
C224	1-162-294-31	CERAMIC	0.001uF	10%	50V
C231	1-164-073-11	CERAMIC	100PF	10%	50V
C232	1-162-306-11	CERAMIC	0.01uF	30%	16V
C235	1-164-095-11	CERAMIC	0.01uF	10%	16V
C236	1-164-026-11	CERAMIC	20PF	5%	50V
C237	1-164-085-11	CERAMIC	0.001uF	10%	50V
C239	1-164-159-11	CERAMIC	0.1uF		50V
C240	1-164-159-11	CERAMIC	0.1uF		50V
C241	1-164-026-11	CERAMIC	20PF	5%	50V
C242	1-164-095-11	CERAMIC	0.01uF	10%	16V
C243	1-126-963-11	ELECT	4.7uF	20%	50V
C244	1-164-019-11	CERAMIC	10PF	0.5PF	50V
C246	1-164-159-11	CERAMIC	0.1uF		50V
C247	1-162-282-31	CERAMIC	100PF	10%	50V
C248	1-124-903-11	ELECT	1uF	20%	50V
C249	1-136-162-00	FILM	0.056uF	5%	50V
C250	1-136-157-00	FILM	0.022uF	5%	50V
C251	1-164-159-11	CERAMIC	0.1uF		50V
C252	1-104-664-11	ELECT	47uF	20%	16V
C253	1-124-903-11	ELECT	1uF	20%	50V
C254	1-164-073-11	CERAMIC	100PF	10%	50V
C255	1-136-169-00	FILM	0.22uF	5%	50V
C256-258					
	1-124-903-11	ELECT	1uF	20%	50V
C259	1-162-306-11	CERAMIC	0.01uF	30%	16V
C260	1-162-293-31	CERAMIC	820PF	10%	50V
C262	1-124-903-11	ELECT	1uF	20%	50V
C263	1-164-073-11	CERAMIC	100PF	10%	50V
C264-266					
	1-124-907-11	ELECT	10uF	20%	50V
C267	1-124-903-11	ELECT	1uF	20%	50V
C268	1-104-664-11	ELECT	47uF	20%	16V
C269	1-164-159-11	CERAMIC	0.1uF		50V
C270	1-124-903-11	ELECT	1uF	20%	50V
C271	1-124-903-11	ELECT	1uF	20%	50V
C272	1-136-162-00	FILM	0.056uF	5%	50V
C273	1-164-159-11	CERAMIC	0.1uF		50V
C274	1-104-664-11	ELECT	47uF	20%	16V
C275	1-104-664-11	ELECT	47uF	20%	16V
C276	1-104-905-11	CAP, DOUBLE LAYERS		0.22F	
C277	1-162-306-11	CERAMIC	0.01uF	30%	16V
C279	1-124-907-11	ELECT	10uF	20%	50V
C280	1-164-159-11	CERAMIC	0.1uF		50V
C281	1-162-600-11	CERAMIC	0.0047uF	30%	16V

Ref. No.	Part No.	Description			Remark
C282	1-164-159-11	CERAMIC	0.1uF		50V
C283	1-136-157-00	FILM	0.022uF	5%	50V
C284	1-162-306-11	CERAMIC	0.01uF	30%	16V
C285	1-124-903-11	ELECT	1uF	20%	50V
C286	1-162-293-31	CERAMIC	820PF	10%	50V
C287	1-104-664-11	ELECT	47uF	20%	16V
C292	1-162-282-31	CERAMIC	100PF	10%	50V
C295	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

CNJ202	1-750-179-11	SOCKET, CONNECTOR 5P	
CNJ203	1-764-920-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P	
CNJ204	1-764-235-11	CONNECTOR, BOARD TO BOARD 28P	
CNP201	1-695-091-11	PIN, CONNECTOR (PC BOARD) 15P	

< TRIMMER >

CT201	1-141-227-00	CAP, TRIMMER	20PF
CT202	1-141-227-00	CAP, TRIMMER	20PF

< DIODE >

D201-204			
	8-719-987-63	DIODE	1N4148M
D205	8-719-024-99	DIODE	11ES2-NTA2B

< FRONT END >

FE201	1-233-348-11	ENCAPSULATED COMPONENT	

< IC >

IC202	8-759-140-53	IC	uPD4053BC
IC205	8-759-341-80	IC	MB90095PF-G-130-BND
IC206	8-759-916-12	IC	SN74HC00AN
IC207	8-759-708-05	IC	NJM78L05A
IC208	8-759-140-53	IC	uPD4053BC
IC209	8-759-343-23	IC	MB90T673PF-G-BND
IC210	8-759-341-79	IC	LA7217
IC211	8-759-061-95	IC	SN761200
IC212	8-759-917-18	IC	SN74HCU04AN
IC213	8-759-341-79	IC	LA7217
IC214	8-759-093-25	IC	MB3512PFQ
IC215	8-759-361-53	IC	S-1810CF-047
IC217	8-759-604-35	IC	M5F78M05L
IC219	8-759-917-18	IC	SN74HCU04AN

< JACK >

J201	1-566-740-11	JACK (RC ANT IN)	
J208	1-766-399-11	JACK, PIN 3P (TV VIDEO IN, MONITOR VIDEO OUT 1, 2)	
J209	1-766-399-11	JACK, PIN 3P (LD VIDEO IN, VIDEO 2 IN/OUT)	

OSD PHONO

Ref. No.	Part No.	Description			Remark
J210	1-766-400-11	JACK, PIN 2P (VIDEO 1 IN/OUT)			
		< COIL >			
L201	1-410-513-11	INDUCTOR 22uH			
		< TRANSISTOR >			
Q200	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q201	8-729-900-36	TRANSISTOR DTC124ES			
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q203	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q214-216	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q217-219	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q221	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R200	1-249-417-11	CARBON	1K	5%	1/4W
R201	1-247-903-00	CARBON	1M	5%	1/4W
R202	1-247-903-00	CARBON	1M	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-247-807-31	CARBON	100	5%	1/4W
R208	1-249-419-11	CARBON	1.5K	5%	1/4W
R209	1-249-429-11	CARBON	10K	5%	1/4W
R210	1-249-424-11	CARBON	3.9K	5%	1/4W
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-418-11	CARBON	1.2K	5%	1/4W
R213	1-249-421-11	CARBON	2.2K	5%	1/4W
R216	1-249-437-11	CARBON	47K	5%	1/4W
R217	1-249-437-11	CARBON	47K	5%	1/4W
R226	1-249-433-11	CARBON	22K	5%	1/4W
R232	1-249-409-11	CARBON	220	5%	1/4W
R237	1-249-429-11	CARBON	10K	5%	1/4W
R242	1-249-433-11	CARBON	22K	5%	1/4W
R246	1-249-423-11	CARBON	3.3K	5%	1/4W
R250	1-249-417-11	CARBON	1K	5%	1/4W
R252	1-249-414-11	CARBON	560	5%	1/4W
R253	1-249-417-11	CARBON	1K	5%	1/4W
R258	1-249-414-11	CARBON	560	5%	1/4W
R259	1-249-417-11	CARBON	1K	5%	1/4W
R260	1-249-425-11	CARBON	4.7K	5%	1/4W
R261	1-249-433-11	CARBON	22K	5%	1/4W
R262	1-247-883-00	CARBON	150K	5%	1/4W
R263	1-249-414-11	CARBON	560	5%	1/4W
R264	1-247-903-00	CARBON	1M	5%	1/4W
R265	1-249-414-11	CARBON	560	5%	1/4W
R266	1-249-403-11	CARBON	68	5%	1/4W

Ref. No.	Part No.	Description			Remark
R267	1-249-424-11	CARBON	3.9K	5%	1/4W
R268	1-249-403-11	CARBON	68	5%	1/4W
R269	1-249-403-11	CARBON	68	5%	1/4W
R270-272	1-249-426-11	CARBON	5.6K	5%	1/4W
R273-275	1-249-403-11	CARBON	68	5%	1/4W
R276-278	1-249-419-11	CARBON	1.5K	5%	1/4W
R279-283	1-249-403-11	CARBON	68	5%	1/4W
R284	1-249-417-11	CARBON	1K	5%	1/4W
R285	1-249-403-11	CARBON	68	5%	1/4W
R286	1-247-891-00	CARBON	330K	5%	1/4W
R288-290	1-249-430-11	CARBON	12K	5%	1/4W
R295	1-249-425-11	CARBON	4.7K	5%	1/4W
R296	1-249-423-11	CARBON	3.3K	5%	1/4W
⚠R2001	1-215-857-11	METAL OXIDE	10	5%	1W F
R2002	1-249-417-11	CARBON	1K	5%	1/4W
R2003	1-247-883-00	CARBON	150K	5%	1/4W
R2004	1-249-424-11	CARBON	3.9K	5%	1/4W
R2005	1-249-414-11	CARBON	560	5%	1/4W
R2006	1-247-807-31	CARBON	100	5%	1/4W
R2007	1-249-409-11	CARBON	220	5%	1/4W
R2008	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV201	1-241-766-11	RES, ADJ, CERMET 47K (OSD)			
		< TEST PIN >			
* TP201	1-560-060-00	PIN, CONNECTOR 2P			
		< VIBRATOR >			
X201	1-567-819-11	VIBRATOR, CERAMIC (4MHz)			
X203	1-527-722-00	OSCILLATOR, CRYSTAL (14.3MHz)			
X204	1-579-583-11	VIBRATOR, CERAMIC (503kHz)			
X205	1-567-819-11	VIBRATOR, CERAMIC (4MHz)			
X206	1-579-583-11	VIBRATOR, CERAMIC (503kHz)			

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*	1-656-635-11	PHONO BOARD			
		**********			
		< CAPACITOR >			
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-104-664-11	ELECT	47uF	20%	16V
C305	1-130-480-00	MYLAR	0.0056uF	5%	50V

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Ref. No.	Part No.	Description			Remark
C306	1-130-473-00	MYLAR	0.0015uF	5%	50V
C307	1-124-903-11	ELECT	1uF	20%	50V
C308	1-164-159-11	CERAMIC	0.1uF		50V
C353	1-162-282-31	CERAMIC	100PF	10%	50V
C354	1-104-664-11	ELECT	47uF	20%	16V
C355	1-130-480-00	MYLAR	0.0056uF	5%	50V
C356	1-130-473-00	MYLAR	0.0015uF	5%	50V
C357	1-124-903-11	ELECT	1uF	20%	50V
C358	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNJ303	1-695-095-11	SOCKET, CONNECTOR 13P			
CNJ304	1-695-095-11	SOCKET, CONNECTOR 13P			
CNP302	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
		< IC >			
IC301	8-759-636-74	IC M5218AP-22			
		< RESISTOR >			
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-416-11	CARBON	820	5%	1/4W
R305	1-247-897-11	CARBON	560K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R354	1-249-416-11	CARBON	820	5%	1/4W
R355	1-247-897-11	CARBON	560K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
**********					
*	A-4377-906-A	PS BOARD, COMPLETE (US, Canadian)			
*	A-4377-945-A	PS BOARD, COMPLETE (PX)			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< BASE POST >			
* BP901	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P			
		< CAPACITOR >			
C901	1-161-494-00	CERAMIC	0.022uF		25V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-124-556-11	ELECT	2200uF	20%	16V
C904	1-124-903-11	ELECT	1uF	20%	50V
C905	1-124-902-00	ELECT	0.47uF	20%	50V
C906	1-124-464-11	ELECT	0.22uF	20%	50V

Ref. No.	Part No.	Description			Remark
C913	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR) (AC OUTLET)			
* CNP902	1-564-751-11	PIN, CONNECTOR (WITH LOCK) 2P			(US, Canadian)
CNP902	1-564-321-00	PIN, CONNECTOR 2P (PX)			
CNP903	1-564-321-00	PIN, CONNECTOR 2P			
CNP905	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
* CNP906	1-564-687-11	PIN, CONNECTOR 3P (PX)			
CNP908	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P (PX)			
		< DIODE >			
D901-904	8-719-024-99	DIODE 11ES2-NTA2B			
D905-907	8-719-987-63	DIODE 1N4148M			
		< TERMINAL BOARD >			
EB900	1-537-770-21	TERMINAL BOARD, GROUND			
		< FUSE >			
⚠F901	1-532-350-00	FUSE (T4AL 125V) (PX)			
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5)			(8A 125V) (US, Canadian)
⚠F903	1-532-350-00	FUSE (T4AL 125V) (PX)			
		< IC >			
IC901	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-209-15	TRANSISTOR 2SD2012			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W (US, Canadian)
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R905	1-249-429-11	CARBON	10K	5%	1/4W
R906	1-249-421-11	CARBON	2.2K	5%	1/4W
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-439-11	CARBON	68K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-249-430-11	CARBON	12K	5%	1/4W
		< RELAY >			
RY901	1-515-999-11	RELAY, POWER			

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PS PT1 PT2 PT3 PT4 S.VIDEO (including CN3)

Ref.No.	Part No.	Description			Remark
		< TRANSFORMER >			
⚠T902	1-450-361-11	TRANSFORMER, POWER (US, Canadian)			
⚠T902	1-429-236-11	TRANSFORMER, POWER (PX)			
**********					
*	1-656-637-11	PT1 BOARD (US, Canadian)			
		*********			
		< CONNECTOR >			
CNJ902	1-770-568-11	SOCKET 3P (US, Canadian)			
**********					
*	1-656-638-11	PT2 BOARD (US, Canadian)			
		*********			
**********					
*	1-656-641-11	PT3 BOARD			
		*********			
**********					
*	1-656-642-11	PT4 BOARD			
		*********			
**********					
*	A-4377-901-A	S. VIDEO BOARD, COMPLETE			
		********** (including CN3 BOARD)			
		< CAPACITOR >			
C205	1-136-165-00	FILM	0.1uF	5%	50V
C207	1-164-095-11	CERAMIC	0.01uF	10%	16V
C209	1-164-095-11	CERAMIC	0.01uF	10%	16V
C210	1-124-903-11	ELECT	1uF	20%	50V
C214	1-136-165-00	FILM	0.1uF	5%	50V
C215	1-164-159-11	CERAMIC	0.1uF		50V
C216	1-164-159-11	CERAMIC	0.1uF		50V
C217	1-104-664-11	ELECT	47uF	20%	16V
C221	1-164-095-11	CERAMIC	0.01uF	10%	16V
C222	1-124-903-11	ELECT	1uF	20%	50V
C223	1-136-165-00	FILM	0.1uF	5%	50V
C225	1-164-095-11	CERAMIC	0.01uF	10%	16V
C226-228					
	1-124-907-11	ELECT	10uF	20%	50V
C229	1-124-903-11	ELECT	1uF	20%	50V
C245	1-136-165-00	FILM	0.1uF	5%	50V
C278	1-124-903-11	ELECT	1uF	20%	50V
C293	1-124-907-11	ELECT	10uF	20%	50V
C296	1-104-666-11	ELECT	220uF	20%	10V

Ref.No.	Part No.	Description			Remark
		< CONNECTOR >			
CNJ201	1-695-096-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D206	8-719-987-63	DIODE 1N4148M			
D210	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC203	8-759-061-95	IC SN761200			
IC204	8-759-061-95	IC SN761200			
		< JACK >			
J202	1-507-967-11	JACK (CTRL A)			
J203	1-507-967-11	JACK (IR OUT)			
J204	1-537-943-11	TERMINAL, S (MONITOR OUT)			
J205	1-537-943-11	TERMINAL, S (LD IN)			
J206	1-691-964-11	CONNECTOR (ROUND TYPE) (VIDEO 2 IN/OUT)			
J207	1-691-964-11	CONNECTOR (ROUND TYPE) (VIDEO 1 IN/OUT)			
		< COIL >			
L203	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q204-206					
	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q207-209					
	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q210-212					
	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q220	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R205	1-247-807-31	CARBON	100	5%	1/4W
R206	1-247-807-31	CARBON	100	5%	1/4W
R214	1-249-429-11	CARBON	10K	5%	1/4W
R215	1-249-403-11	CARBON	68	5%	1/4W
R218	1-249-403-11	CARBON	68	5%	1/4W
R219	1-249-403-11	CARBON	68	5%	1/4W
R220	1-247-807-31	CARBON	100	5%	1/4W
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-249-429-11	CARBON	10K	5%	1/4W
R223	1-247-807-31	CARBON	100	5%	1/4W
R224	1-247-807-31	CARBON	100	5%	1/4W
R225	1-249-403-11	CARBON	68	5%	1/4W
R227	1-249-403-11	CARBON	68	5%	1/4W
R228-230					
	1-249-411-11	CARBON	330	5%	1/4W
R231	1-249-403-11	CARBON	68	5%	1/4W

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S.VIDEO (including CN3) | SP TM | SURROUND

Ref.No.	Part No.	Description				Remark
R233-235						
	1-249-426-11	CARBON	5.6K	5%	1/4W	
R236	1-249-429-11	CARBON	10K	5%	1/4W	
R238-241						
	1-249-403-11	CARBON	68	5%	1/4W	
R243-245						
	1-249-419-11	CARBON	1.5K	5%	1/4W	
R247-249						
	1-249-403-11	CARBON	68	5%	1/4W	
R251	1-249-403-11	CARBON	68	5%	1/4W	
R254-256						
	1-249-430-11	CARBON	12K	5%	1/4W	
R257	1-249-403-11	CARBON	68	5%	1/4W	
R287	1-247-807-31	CARBON	100	5%	1/4W	
R291	1-249-429-11	CARBON	10K	5%	1/4W	
R292	1-249-393-11	CARBON	10	5%	1/4W	
R293	1-249-429-11	CARBON	10K	5%	1/4W	
R294	1-249-425-11	CARBON	4.7K	5%	1/4W	
**********						
*	1-656-649-11	SP TM BOARD				
		**********				
		< CONNECTOR >				
CNJ703	1-770-569-11	SOCKET 4P				
CNJ704	1-750-179-11	SOCKET, CONNECTOR 5P				
		< DIODE >				
D712	8-719-987-63	DIODE 1N4148M				
		< JACK >				
J701	1-770-377-21	JACK, PIN 1P (MIX OUT)				
		< COIL >				
L701	1-420-872-00	COIL, AIR-CORE				
L751	1-420-872-00	COIL, AIR-CORE				
		< TRANSISTOR >				
Q714	8-729-119-79	TRANSISTOR 2SC2785-FEK				
		< RESISTOR >				
⚠R713	1-249-389-11	CARBON	4.7	5%	1/4W	F
R718	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-249-429-11	CARBON	10K	5%	1/4W	
R725	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R726	1-249-414-11	CARBON	560	5%	1/4W	F
R729	1-249-435-11	CARBON	33K	5%	1/4W	
R730	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R763	1-249-389-11	CARBON	4.7	5%	1/4W	F

Ref.No.	Part No.	Description				Remark
		< RELAY >				
RY701	1-515-765-11	RELAY				
		< SWITCH >				
S701	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)				
		< TERMINAL >				
TM701	1-537-893-11	TERMINAL BOARD (SP) (FRONT SPEAKER)				
**********						
*	A-4377-903-A	SURROUND BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C301	1-126-163-11	ELECT	4.7uF	20%	50V	
C302	1-164-073-11	CERAMIC	100PF	10%	50V	
C311-313						
	1-124-907-11	ELECT	10uF	20%	50V	
C316	1-164-159-11	CERAMIC	0.1uF		50V	
C351	1-126-163-11	ELECT	4.7uF	20%	50V	
C352	1-164-073-11	CERAMIC	100PF	10%	50V	
C361-363						
	1-124-907-11	ELECT	10uF	20%	50V	
C366	1-164-159-11	CERAMIC	0.1uF		50V	
C397	1-164-073-11	CERAMIC	100PF	10%	50V	
C398	1-164-085-11	CERAMIC	0.001uF	10%	50V	
C400	1-162-282-31	CERAMIC	100PF	10%	50V	
C401	1-164-159-11	CERAMIC	0.1uF		50V	
C402	1-164-159-11	CERAMIC	0.1uF		50V	
C403	1-136-157-00	FILM	0.022uF	5%	50V	
C404	1-136-161-00	FILM	0.047uF	5%	50V	
C405	1-104-666-11	ELECT	220uF	20%	10V	
C406-409						
	1-124-907-11	ELECT	10uF	20%	50V	
C410	1-104-666-11	ELECT	220uF	20%	10V	
C411	1-124-907-11	ELECT	10uF	20%	50V	
C412	1-124-907-11	ELECT	10uF	20%	50V	
C413	1-136-165-00	FILM	0.1uF	5%	50V	
C414	1-136-165-00	FILM	0.1uF	5%	50V	
C415	1-124-902-00	ELECT	0.47uF	20%	50V	
C416	1-126-963-11	ELECT	4.7uF	20%	50V	
C417	1-124-902-00	ELECT	0.47uF	20%	50V	
C418	1-126-963-11	ELECT	4.7uF	20%	50V	
C419	1-124-250-11	ELECT	0.15uF	20%	50V	
C420	1-126-962-11	ELECT	3.3uF	20%	50V	
C421	1-124-250-11	ELECT	0.15uF	20%	50V	
C422	1-162-282-31	CERAMIC	100PF	10%	50V	
C423	1-104-664-11	ELECT	47uF	20%	16V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SURROUND

Ref. No.	Part No.	Description			Remark
C424	1-136-165-00	FILM	0. 1uF	5%	50V
C425	1-136-165-00	FILM	0. 1uF	5%	50V
C426	1-124-902-00	ELECT	0. 47uF	20%	50V
C427	1-126-963-11	ELECT	4. 7uF	20%	50V
C428	1-126-963-11	ELECT	4. 7uF	20%	50V
C429	1-124-250-11	ELECT	0. 15uF	20%	50V
C430	1-124-902-00	ELECT	0. 47uF	20%	50V
C431	1-126-962-11	ELECT	3. 3uF	20%	50V
C432	1-124-250-11	ELECT	0. 15uF	20%	50V
C433	1-104-666-11	ELECT	220uF	20%	10V
C434	1-104-664-11	ELECT	47uF	20%	16V
C435	1-164-159-11	CERAMIC	0. 1uF		50V
C436	1-124-925-11	ELECT	2. 2uF	20%	100V
C437	1-104-666-11	ELECT	220uF	20%	10V
C438	1-136-165-00	FILM	0. 1uF	5%	50V
C439	1-124-907-11	ELECT	10uF	20%	50V
C440	1-130-469-00	MYLAR	680PF	5%	50V
C441	1-124-907-11	ELECT	10uF	20%	50V
C442	1-124-907-11	ELECT	10uF	20%	50V
C443	1-164-159-11	CERAMIC	0. 1uF		50V
C444	1-124-907-11	ELECT	10uF	20%	50V
C445	1-164-159-11	CERAMIC	0. 1uF		50V
C446	1-164-159-11	CERAMIC	0. 1uF		50V
C447	1-136-173-00	FILM	0. 47uF	5%	50V
C448	1-124-907-11	ELECT	10uF	20%	50V
C449	1-162-215-31	CERAMIC	47PF	5%	50V
C450	1-162-215-31	CERAMIC	47PF	5%	50V
C451	1-164-159-11	CERAMIC	0. 1uF		50V
C452	1-104-666-11	ELECT	220uF	20%	10V
C453	1-136-159-00	FILM	0. 033uF	5%	50V
C454	1-130-473-00	MYLAR	0. 0015uF	5%	50V
C455	1-136-159-00	FILM	0. 033uF	5%	50V
C456	1-124-903-11	ELECT	1uF	20%	50V
C457	1-104-666-11	ELECT	220uF	20%	10V
C465	1-162-199-31	CERAMIC	10PF	5%	50V
C470	1-162-215-31	CERAMIC	47PF	5%	50V
C472	1-126-963-11	ELECT	4. 7uF	20%	50V
C473	1-126-963-11	ELECT	4. 7uF	20%	50V
C491	1-124-907-11	ELECT	10uF	20%	50V
C492	1-124-907-11	ELECT	10uF	20%	50V
C493	1-164-159-11	CERAMIC	0. 1uF		50V
C494	1-124-907-11	ELECT	10uF	20%	50V
C495	1-164-159-11	CERAMIC	0. 1uF		50V
C501	1-124-907-11	ELECT	10uF	20%	50V
C502	1-164-073-11	CERAMIC	100PF	10%	50V
C503	1-102-989-00	CERAMIC	68PF	5%	500V
C504	1-102-989-00	CERAMIC	68PF	5%	500V
C505	1-124-443-00	ELECT	100uF	20%	10V
C506	1-136-159-00	FILM	0. 033uF	5%	50V

Ref. No.	Part No.	Description			Remark
C507	1-136-171-00	FILM	0. 33uF	5%	50V
C508	1-104-664-11	ELECT	47uF	20%	16V
C509	1-136-495-11	FILM	0. 068uF	5%	50V
C510	1-136-153-00	FILM	0. 01uF	5%	50V
C511	1-130-476-00	MYLAR	0. 0027uF	5%	50V
C512	1-136-157-00	FILM	0. 022uF	5%	50V
C513	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C514	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C521	1-124-907-11	ELECT	10uF	20%	50V
C522	1-164-073-11	CERAMIC	100PF	10%	50V
C523	1-104-664-11	ELECT	47uF	20%	16V
C524	1-102-989-00	CERAMIC	68PF	5%	500V
C525	1-102-989-00	CERAMIC	68PF	5%	500V
C526	1-164-040-11	CERAMIC	4PF	0. 25PF	50V
C551	1-124-907-11	ELECT	10uF	20%	50V
C552	1-164-073-11	CERAMIC	100PF	10%	50V
C553	1-102-989-00	CERAMIC	68PF	5%	500V
C554	1-102-989-00	CERAMIC	68PF	5%	500V
C555	1-124-443-00	ELECT	100uF	20%	10V
C556	1-136-159-00	FILM	0. 033uF	5%	50V
C557	1-136-171-00	FILM	0. 33uF	5%	50V
C558	1-104-664-11	ELECT	47uF	20%	16V
C559	1-136-495-11	FILM	0. 068uF	5%	50V
C560	1-136-153-00	FILM	0. 01uF	5%	50V
C561	1-130-476-00	MYLAR	0. 0027uF	5%	50V
C562	1-136-157-00	FILM	0. 022uF	5%	50V
C563	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C564	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C593	1-124-916-11	ELECT	22uF	20%	63V
C594	1-124-916-11	ELECT	22uF	20%	63V
C595	1-164-159-11	CERAMIC	0. 1uF		50V
C596	1-104-664-11	ELECT	47uF	20%	16V
C597	1-104-664-11	ELECT	47uF	20%	16V
C598	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

CNJ299	1-770-864-11	CONNECTOR, BOARD TO BOARD 7P
CNJ501	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P
CNJ502	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P
CNP303	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P
CNP304	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P
CNP401	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P
CNP404	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P
CNS402	1-764-962-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P

< DIODE >

D401	8-719-001-30	DIODE	UZL-9H3
D402	8-719-987-63	DIODE	1N4148M
D403	8-719-024-99	DIODE	11ES2-NTA2B

Ref. No.	Part No.	Description	Remark
		< TERMINAL BOARD >	
EB400	1-537-770-21	TERMINAL BOARD, GROUND	
EB401	1-537-770-21	TERMINAL BOARD, GROUND	
		< IC >	
IC302	8-759-634-50	IC M5218AL	
IC303	8-759-634-50	IC M5218AL	
IC305	8-759-805-14	IC LC7822	
IC401	8-759-248-74	IC LA2785	
IC402	8-759-341-23	IC LV1011	
IC403	8-759-634-51	IC M5218AP	
IC406	8-759-634-51	IC M5218AP	
IC501	8-749-920-70	IC STK-3102-3	
IC502	8-759-072-32	IC TC9184P	
IC503	8-749-011-16	IC STK350-230	
		< JACK >	
J301	1-691-887-11	JACK, PIN 6P (CD IN, PHONO IN, DAT/MD REC OUT)	
J302	1-580-825-11	JACK, PIN 6P (TAPE IN/REC OUT, DAT/MD IN)	
		< COIL >	
L401	1-410-509-11	INDUCTOR 10uH	
L402	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q403	8-729-140-96	TRANSISTOR 2SD774-34	
Q404-407	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q408-411	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q502	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q551	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q552	8-729-202-67	TRANSISTOR 2SK246-GR3	
		< RESISTOR >	
R301	1-249-409-11	CARBON 220 5% 1/4W	
R302	1-249-441-11	CARBON 100K 5% 1/4W	
R310	1-249-421-11	CARBON 2.2K 5% 1/4W	
R311-314	1-249-417-11	CARBON 1K 5% 1/4W	
R315	1-249-441-11	CARBON 100K 5% 1/4W	
R316	1-249-437-11	CARBON 47K 5% 1/4W	
R317	1-249-437-11	CARBON 47K 5% 1/4W	
R318	1-249-441-11	CARBON 100K 5% 1/4W	
R319	1-249-417-11	CARBON 1K 5% 1/4W	
R320	1-249-425-11	CARBON 4.7K 5% 1/4W	
R321	1-249-429-11	CARBON 10K 5% 1/4W	
R351	1-249-409-11	CARBON 220 5% 1/4W	
R352	1-249-441-11	CARBON 100K 5% 1/4W	
R360	1-249-421-11	CARBON 2.2K 5% 1/4W	
R361-364	1-249-417-11	CARBON 1K 5% 1/4W	
R365	1-249-441-11	CARBON 100K 5% 1/4W	
R366	1-249-437-11	CARBON 47K 5% 1/4W	
R367	1-249-437-11	CARBON 47K 5% 1/4W	
R368	1-249-441-11	CARBON 100K 5% 1/4W	
R369	1-249-417-11	CARBON 1K 5% 1/4W	
R370	1-249-425-11	CARBON 4.7K 5% 1/4W	
R371	1-249-429-11	CARBON 10K 5% 1/4W	
R397	1-249-417-11	CARBON 1K 5% 1/4W	
R398	1-249-425-11	CARBON 4.7K 5% 1/4W	
R401	1-249-417-11	CARBON 1K 5% 1/4W	
R402	1-249-417-11	CARBON 1K 5% 1/4W	
R403	1-247-807-31	CARBON 100 5% 1/4W	
R404	1-247-807-31	CARBON 100 5% 1/4W	
R405	1-249-425-11	CARBON 4.7K 5% 1/4W	
R406	1-249-425-11	CARBON 4.7K 5% 1/4W	
R407	1-249-417-11	CARBON 1K 5% 1/4W	
R408	1-249-431-11	CARBON 15K 5% 1/4W	
R409	1-249-407-11	CARBON 150 5% 1/4W	
R410	1-249-436-11	CARBON 39K 5% 1/4W	
R411	1-249-439-11	CARBON 68K 5% 1/4W	
R412	1-247-903-00	CARBON 1M 5% 1/4W	
R413	1-249-441-11	CARBON 100K 5% 1/4W	
R414	1-249-429-11	CARBON 10K 5% 1/4W	
R415	1-249-433-11	CARBON 22K 5% 1/4W	
R416	1-249-413-11	CARBON 470 5% 1/4W	
R417	1-249-425-11	CARBON 4.7K 5% 1/4W	
R418	1-249-413-11	CARBON 470 5% 1/4W	
R419	1-249-425-11	CARBON 4.7K 5% 1/4W	
R430	1-249-441-11	CARBON 100K 5% 1/4W	
R431	1-249-437-11	CARBON 47K 5% 1/4W	
R432	1-249-441-11	CARBON 100K 5% 1/4W	
R433	1-249-437-11	CARBON 47K 5% 1/4W	
R434	1-249-441-11	CARBON 100K 5% 1/4W	
R435	1-249-437-11	CARBON 47K 5% 1/4W	
R436	1-249-437-11	CARBON 47K 5% 1/4W	
R437	1-249-416-11	CARBON 820 5% 1/4W	
R438	1-249-429-11	CARBON 10K 5% 1/4W	
R440	1-249-429-11	CARBON 10K 5% 1/4W	

SURROUND VIDEO 3 VOLUME

Ref. No.	Part No.	Description				Remark
R441	1-249-429-11	CARBON	10K	5%	1/4W	
R442	1-249-435-11	CARBON	33K	5%	1/4W	
R443	1-249-433-11	CARBON	22K	5%	1/4W	
R444	1-249-433-11	CARBON	22K	5%	1/4W	
R445	1-249-429-11	CARBON	10K	5%	1/4W	
R446	1-249-417-11	CARBON	1K	5%	1/4W	
R463	1-249-441-11	CARBON	100K	5%	1/4W	
R464	1-249-429-11	CARBON	10K	5%	1/4W	
R465	1-249-429-11	CARBON	10K	5%	1/4W	
R466	1-249-413-11	CARBON	470	5%	1/4W	
R467	1-249-425-11	CARBON	4.7K	5%	1/4W	
R468	1-249-413-11	CARBON	470	5%	1/4W	
R469	1-249-425-11	CARBON	4.7K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-441-11	CARBON	100K	5%	1/4W	
R503	1-249-413-11	CARBON	470	5%	1/4W	
R504	1-249-440-11	CARBON	82K	5%	1/4W	
R505	1-249-433-11	CARBON	22K	5%	1/4W	
R506	1-249-413-11	CARBON	470	5%	1/4W	
R507	1-249-427-11	CARBON	6.8K	5%	1/4W	
R508	1-247-883-00	CARBON	150K	5%	1/4W	
R509	1-249-423-11	CARBON	3.3K	5%	1/4W	
R510	1-247-903-00	CARBON	1M	5%	1/4W	
R511	1-249-441-11	CARBON	100K	5%	1/4W	
R512	1-249-426-11	CARBON	5.6K	5%	1/4W	
R513	1-249-441-11	CARBON	100K	5%	1/4W	
R515	1-249-434-11	CARBON	27K	5%	1/4W	
R516	1-249-426-11	CARBON	5.6K	5%	1/4W	
R517	1-249-418-11	CARBON	1.2K	5%	1/4W	
R518	1-249-415-11	CARBON	680	5%	1/4W	
R519	1-249-431-11	CARBON	15K	5%	1/4W	
R521	1-249-417-11	CARBON	1K	5%	1/4W	
R523	1-249-438-11	CARBON	56K	5%	1/4W	
R524	1-249-413-11	CARBON	470	5%	1/4W	
R525	1-249-412-11	CARBON	390	5%	1/4W	
R526	1-249-438-11	CARBON	56K	5%	1/4W	
R551	1-249-417-11	CARBON	1K	5%	1/4W	
R552	1-249-441-11	CARBON	100K	5%	1/4W	
R553	1-249-413-11	CARBON	470	5%	1/4W	
R554	1-249-440-11	CARBON	82K	5%	1/4W	
R555	1-249-433-11	CARBON	22K	5%	1/4W	
R556	1-249-413-11	CARBON	470	5%	1/4W	
R557	1-249-427-11	CARBON	6.8K	5%	1/4W	
R558	1-247-883-00	CARBON	150K	5%	1/4W	
R559	1-249-423-11	CARBON	3.3K	5%	1/4W	
R560	1-247-903-00	CARBON	1M	5%	1/4W	
R561	1-249-441-11	CARBON	100K	5%	1/4W	
R562	1-249-426-11	CARBON	5.6K	5%	1/4W	
R563	1-249-441-11	CARBON	100K	5%	1/4W	
R565	1-249-434-11	CARBON	27K	5%	1/4W	
R566	1-249-426-11	CARBON	5.6K	5%	1/4W	
R567	1-249-418-11	CARBON	1.2K	5%	1/4W	
R568	1-249-415-11	CARBON	680	5%	1/4W	
R569	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R592	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R593	1-249-397-11	CARBON	22	5%	1/4W	F
R594	1-247-903-00	CARBON	1M	5%	1/4W	
R595	1-249-425-11	CARBON	4.7K	5%	1/4W	
R596	1-249-419-11	CARBON	1.5K	5%	1/4W	
R597	1-249-419-11	CARBON	1.5K	5%	1/4W	
R598	1-249-425-11	CARBON	4.7K	5%	1/4W	
R599	1-249-417-11	CARBON	1K	5%	1/4W	

< TERMINAL >

TM401 1-537-734-11 TERMINAL BOARD, ANT (ANTENNA)

< TUNER >

TU401 1-693-286-11 TUNER (FCC)

< VIBRATOR >

X401 1-579-952-21 VIBRATOR, CERAMIC (8MHz)

****

* 1-656-632-11 VIDEO 3 BOARD

****

< CAPACITOR >

C299 1-164-159-11 CERAMIC 0.1uF 50V

< CONNECTOR >

CNP299 1-770-865-11 CONNECTOR, BOARD TO BOARD 7P

< JACK >

J299 1-764-190-21 JACK, PIN 3P (VIDEO 3 INPUT)

< RESISTOR >

R297-299 1-249-403-11 CARBON 68 5% 1/4W

****

* 1-656-633-11 VOLUME BOARD

****

< CONNECTOR >

CNJ405 1-695-095-11 SOCKET, CONNECTOR 13P

CNP108 1-770-389-11 PIN, CONNECTOR (PC BOARD) 5P

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VOLUME VS

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R499	1-249-411-11	CARBON 330 5% 1/4W	
		< VARIABLE RESISTOR >	
RV401	1-223-863-11	RES, VAR, CARBON 10K/100KX4 (MASTER)	
**********			
*	1-656-650-11	VS BOARD (PX)	
		********	
		< CONNECTOR >	
CNP910	1-564-321-00	PIN, CONNECTOR 2P (PX)	
* CNP911	1-564-687-11	PIN, CONNECTOR 3P (PX)	
* CNP912	1-564-687-11	PIN, CONNECTOR 3P (PX)	
		< SWITCH >	
⚠S902	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (PX)	
**********			
		MISCELLANEOUS	
		**********	
16	1-773-723-11	WIRE (FLAT TYPE) (21 CORE)	
17	1-773-603-11	WIRE (FLAT TYPE) (15 CORE)	
19	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
⚠80	1-590-074-11	CORD, POWER (PX)	
⚠80	1-769-743-11	CORD, POWER (US, Canadian)	
⚠T901	1-427-726-11	TRANSFORMER, POWER (US)	
⚠T901	1-427-727-11	TRANSFORMER, POWER (Canadian)	
⚠T901	1-427-976-11	TRANSFORMER, POWER (PX)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-501-374-11	ANTENNA, LOOP	
	1-501-662-11	ANTENNA (REMOTE CONTOROL)	
	3-798-950-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-798-950-21	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-800-476-11	MANUAL, INSTRUCTION (CARD) (ENGLISH)	
	3-800-476-21	MANUAL, INSTRUCTION (CARD) (FRENCH) (Canadian)	
	3-800-843-01	INSTRUCTION (US, Canadian)	
*	4-964-565-11	CUSHION	
*	4-975-577-01	INDIVIDUAL CARTON	
	8-917-208-90	REPEATER, IR RM-IR100 SET	
	A-4352-701-A	REMOTE COMMANDER (RM-VP1)	
	X-4944-184-1	LID ASSY, BATTERY CASE (For RM-VP1)	
**********			

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-548-09	SCREW +BVTT 3×8 (S)	
#2	7-685-646-79	SCREW +BVTP 3×8 TYPE2 IT-3	
#3	7-682-548-04	SCREW +BVTT 3×8 (S)	

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